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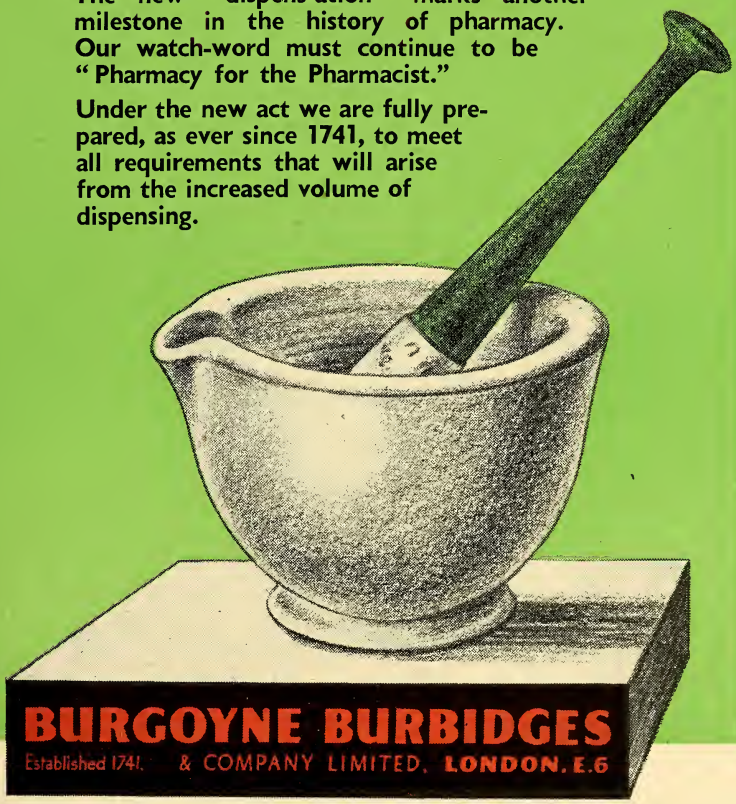
The
CHEMIST AND DRUGGIST
RETAILER - WHOLESALER - MANUFACTURER
JULY 17, 1948

JULY FIFTH

The new "dispens-ation" marks another milestone in the history of pharmacy. Our watch-word must continue to be "Pharmacy for the Pharmacist."

Under the new act we are fully prepared, as ever since 1741, to meet all requirements that will arise from the increased volume of dispensing.



BURGOYNE BURBIDGES
Established 1741. & COMPANY LIMITED. LONDON, E.6

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ANTACID AND STARCH DIGESTANT

Bonus Terms are available . . .

Minimum Retail Price including P.
2/6d. (30 lozs.) & 6/7½d. (100 lozs

Takazyma Lozenges

These lozenges present an effective combination of *insoluble* alkalis an Taka-Diastase in a palatable and convenient form that will be readi appreciated by every customer requiring aid in starch digestion.

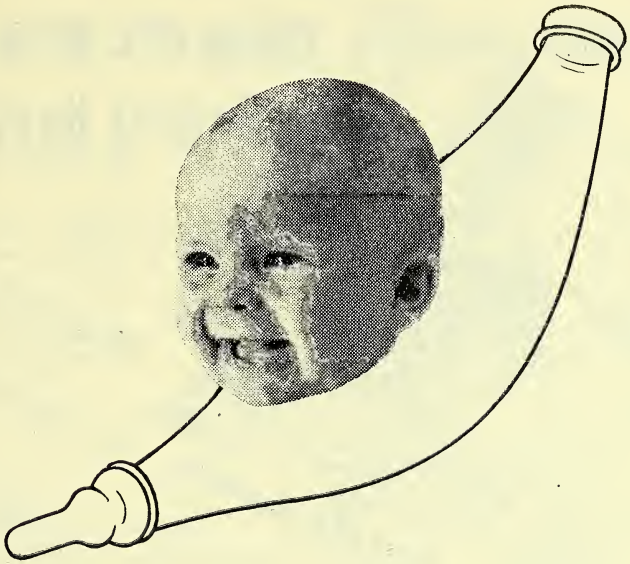
They are unique in that they contain the potent starch-digesting enzym Taka-Diastase, which is capable of liquefying 300 times its own weig of potato starch in ten minutes under laboratory conditions.

The *insoluble* alkalis neutralize excess acid only, and thus do not rend the stomach contents alkaline.

Each lozenge contains :— Taka-Diastase ½ gr. Bismuth Subcarbonate 1 gr. Magnesiu Carbonate 2 grs. Ginger 1/10 gr. Calcium Carbonate precipitated 4 grs.

PARKE, DAVIS & COMPANY

Offices and Laboratories : STAINES ROAD, HOUNSLOW, MIDDLESE



HIDDEN DANGER OF INFECTED FEEDING BOTTLES...

they may *look* clean and *still* be contaminated and thus be a source of gastric infection (sickness and diarrhœa). Encourage mothers to protect their babies by sterilizing both bottle and teats the MILTON way, which is safe, sure, simple and economical. You can sell an extra bottle of MILTON with every feeding bottle or teat.

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Macleans Peroxide Tooth Paste.

All that a really good tooth paste can do, it does supremely well. It cleans thoroughly and keeps gums and mouth fresh and healthy.

Macleans Toothbrush. Right in every way. IN SHAPE—small head and slim handle to clean awkward places. IN TEXTURE—not too hard, not too soft. Springy tufts. IN COLOUR—Green, blue, red, white.

Macleans Solid Dentifrice. Solid value through and through. The kiddies love it, and it's so economical.

and quick selling lines for Bathroom Routine

Macleans Quick Lather Shaving Cream. For quicker and smoother shaves. It's so soothing—so generous with its instant lather. And a very little goes a long, long way.

Macleans Hydrogen Peroxide. Invaluable for gargling, disinfecting, bleaching and other toilet uses. In 4 fluid oz. bottles (10 vols. or 20 vols.).

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Flybay keeps the pests away!

A pleasant and effective protection against biting insects, contains Dimethyl Phthalate. One application keeps insects at bay for several hours. Dozen lots supplied ready packed in an eye-catching display outer. Cost: **9/6d.** per dozen, plus tax at 33⅓%. Retail price **1/6d.** (including tax).

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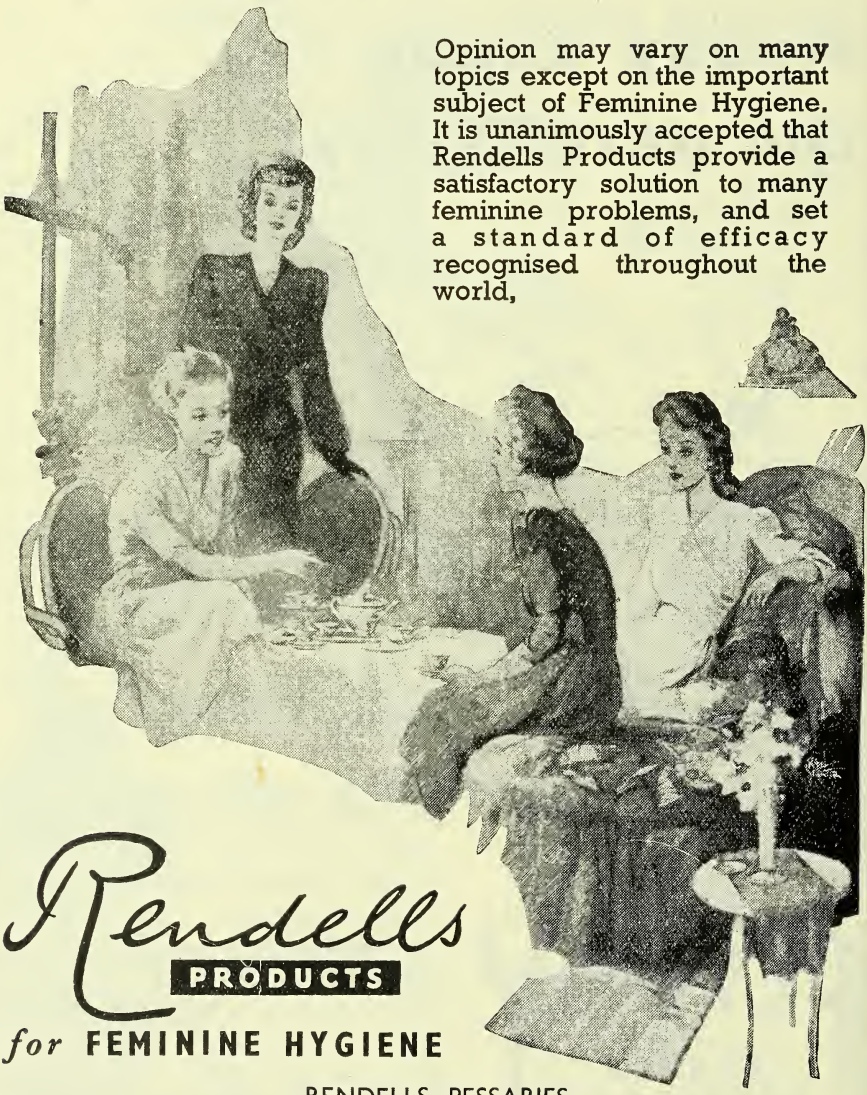

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PRODUCTS
for FEMININE HYGIENE

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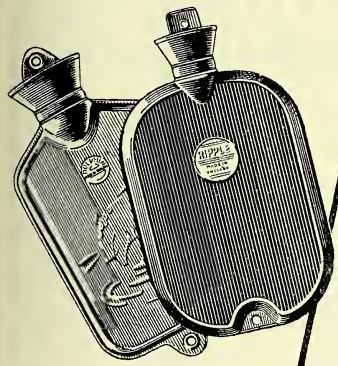
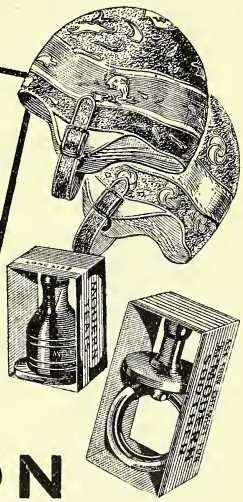


All Cannon Rubber products are of the highest quality available today. Both at home and overseas these products have become popular because they are manufactured to most exacting standards. Wherever the CANNON trade mark appears, there you will find the best that is to be had.



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Makers of 'Modern' and 'Wellborn' Teats, The 'Dolphin' and 'Ripple' Hot Water Bottles, 'Diver' and 'Rosette' Bathing Caps.

THE CANNON RUBBER MANUFACTURERS LIMITED · LONDON · N.17

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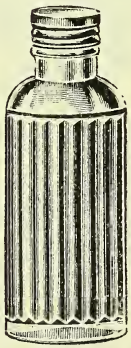
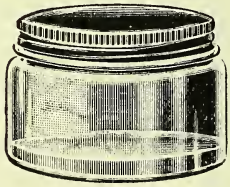
DIRECT FROM STOCK AT **REDUCED PRICES**





WHITE FLINT OVALS, with plastic screw caps—

½ oz.	1 oz.	2 oz.	4 oz.
18/6	20/3	21/9	27/3 gross

TABLET BOTTLES, white enamelled screw caps—

No. 2	3	4	5	6	7
14/6	15/-	15/6	16/6	18/3	20/9 gross

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½ oz.	1 oz.	2 oz.
24/3	34/6	39/- gross

MEDICALS with plastic screw caps—

2 oz.	4 oz.	8 oz.
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(Above prices are for case lots of 5 gross of a kind)

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Confidence turns into Cash!

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Cassell's
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Germolene - Germoloids

The cash you take for these famous Veno products comes over your counter on a tide of goodwill. Don't stem this tide for lack of stock! Order now! TERMS: Combined orders amounting to £3 and upwards from qualified Chemists will be subject to 10% for display co-operation in addition to our usual 2½% discount for monthly account.

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PILE PREPARATIONS

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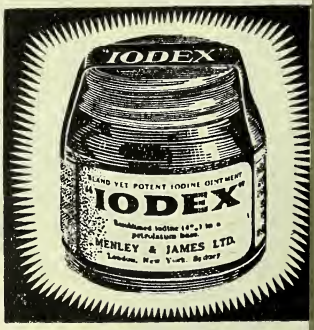
The BLAND, SOOTHING *Iodine Ointment*

There is no form of iodine more bland than 'Iodex'. Even on open wounds and sensitive surfaces it is soothing, inflammation-reducing, and resolvent. Its wide field of usefulness has been recognised by doctors for over thirty years, and it is regularly prescribed for such conditions as enlarged glands, joint and muscle pains, minor injuries, and certain parasitic skin affections.



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IODINE OINTMENT

MENLEY & JAMES LTD.

123 Coldharbour Lane, London, S.E.5.

1-OZ. JARS

Trade Price

18 9 per dozen, plus 6/3 tax

Retail Price

2/9 each, inclusive of tax

Supplied also in 4-oz. Jars

the sun and summer sales

The Sun Makes Things Grow—things like flowers, grass, nettles . . . and the sale of remedies for sunburn and insect bites. So check your stocks of 'DERMOGESIC' Analgesic Calamine Ointment, Sharp & Dohme's greaseless, cooling skin cream that instantly relieves sunburn and skin irritation. 'DERMOGESIC' Ointment has a fresh, clean odour, spreads evenly, does not stain clothing, is washable, and may be used safely even on the tender skin of infants, to soothe napkin rash. Display 'DERMOGESIC' Ointment with your sunburn lotions, have a supply handy on your shelves, and of course stock this soothing antipruritic ointment with your prescription specialities, for 'DERMOGESIC' Ointment is being continuously brought to the attention of physicians by means of samples, direct mail, professional journals, and personal detailing. 'DERMOGESIC' contains Calamine, Benzocaine and Hexylated Metacresol in a vanishing-cream base, and is supplied in 1-ounce tubes retailing at 3/2½ (including Tax).

Subject to 33⅓% discount.

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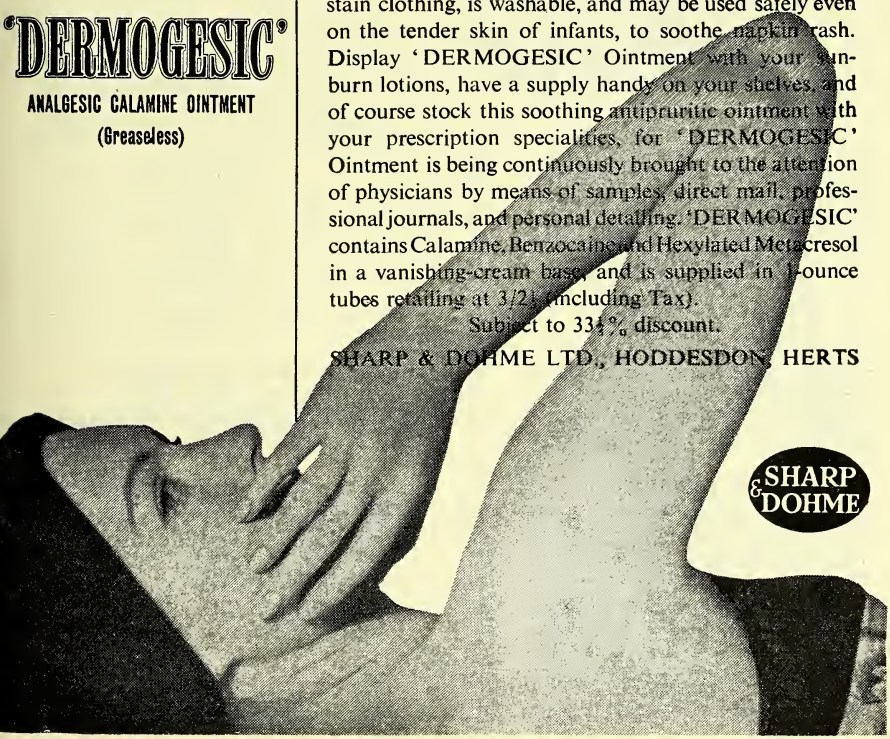
'DERMOGESIC'
ANALGESIC CALAMINE OINTMENT
(Greaseless)



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Empty ANDREWS cases *please*

For some time past we have experienced considerable difficulty in despatching supplies of Andrews because of the acute shortage of cases.

The position is NOW SERIOUS

and unless customers holding Andrews empty cases return them immediately a hold-up in deliveries will result. Your co-operation is requested. Postage or carriage will be credited.

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Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/fwd (*or state cost on label*).

ANDREWS

SCOTT & TURNER, LTD.
Andrews House, Newcastle-on-Tyne, 2
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GLANOID

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ESSENCE OF RENNET

RASPBERRY, STRAWBERRY,
LEMON, ORANGE,
VANILLA

1 OUNCE BOTTLES
sufficient for 8 pints of Junket

RETAIL
2/3
PER BOTTLE

SUPPLIES AVAILABLE

WITH ONE OR TWO EXCEPTIONS THE RETAILER'S DISCOUNT ON ARMOUR MEDICINAL PRODUCTS IS 33⅓%.

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Armour Laboratories
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Efficient Salicylate Medication

'ALASIL' is an analgesic, antipyretic and sedative of established value. It provides the physician with an efficient form of salicylate medication which combines the advantages of high tolerability and greater freedom from the possibility of unpleasant gastro-intestinal sequelæ.

This tolerability is due to the fact that 'Alasil' is a combination of acetylsalicylic acid and Dibasic Calcium Phosphate together with 'Alocol' (Colloidal Aluminium Hydroxide), an effective gastric sedative and antacid.

For these reasons 'Alasil' can be administered with confidence—over prolonged periods if necessary—to children, adults, the aged, and patients with finely balanced digestive capacities.

Alasil

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Aspirin with a Difference

Retail Prices: Bottles **1/7** *and* **3/1½**
Including Purchase Tax.

Trade Prices: **11/3** *and* **22/6**
Plus Purchase Tax.

On the P.A.T.A.

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Firm favourites!

with every member of the family . . . .

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(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

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205-207, Victoria House, London, W.C.1

318

Richard Daniel & Son Ltd

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SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

Head Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

This EXTRA SALES ASSISTANT Will bring in the summer crowds!

This colourful poster for BRONTAN will be appearing throughout the summer to assist you in selling this popular Sun Tan Cream to thousands. There's always a steady demand for Brontan in the summer season, so be sure you have stocks available by ordering NOW!

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LONDON · N·7
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WHEAT GERM OIL
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SANTONIN
& ALL STANDARD LINES

SPECIALITIES:—"TYEVITE" VITAMIN CAPSULES—"TYEBRAND" HALIBUT LIVER OIL
"TYEBRAND" COD LIVER OIL—"TYEBRAND" IODINE PENCILS
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'AVLON' PENICILLIN SALTS and PENICILLIN PREPARATIONS

Penicillin—Crystalline Sodium Salt.
Minimum potency 1,600 units per mg. 0.1, 0.2, 0.5, 1.0 me unit. Single vials and boxes of 10.

Oily Injection of Penicillin B.P. Vials of 10 c.c. and boxes of

Lozenge of Penicillin B.P. Bottles of 25.

Penicillin with Sterilised 'Sulphamezathine' Powder.
(5,000 units calcium salt per gramme) Bottles of 25 gramm

Penicillin with Sterilised Sulphanilamide Powder.
(5,000 units calcium salt per gramme) Bottles of 25 gramm

Penicillin Sodium Salt. (0.1, 0.2, 0.5, 1.0 mega unit) Single vi and boxes of 10.

ICI

Ph.205

IMPERIAL CHEMICAL [PHARMACEUTICALS] LTI
(A subsidiary company of Imperial Chemical Industries Ltd.)
MANCHESTER

Little-known Limericks—No. 20 (Reprinted)

A headache has worried Brand's Man
Since rationing of foodstuffs began.
His brain is on fire
With a burning desire
To send you as much as he can.

Fair shares for all—that is the policy of Brand & Co. when supplies are short. That is why the Brand salesman, although he cannot meet your full requirements, will offer you a fair percentage of the available supplies. All Brand's products are distributed on a strict quota basis.

Brand & Co. Ltd.

London

THE *Modern* ANTACID...

With your help BROOKLAX and BONOMINT have become leading laxatives in this country. We now hope to have your co-operation in making MAGTRIZ the popular remedy for indigestion.
To inaugurate the launching of MAGTRIZ TABLETS we are making an

Introductory DOUBLE BONUS OFFER

1. **33⅓% trade discount.**
2. **With first order—2 packets FREE for every dozen ordered.**
3. **Attractive publicity material.**

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DIGESTIVE TABLETS

Two sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.

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PURITY

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for WHOOPING COUGH
for use with ELDON VAPORISERS

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NEWCASTLE UPON TYNE

CARBOY STAND AND TILTER

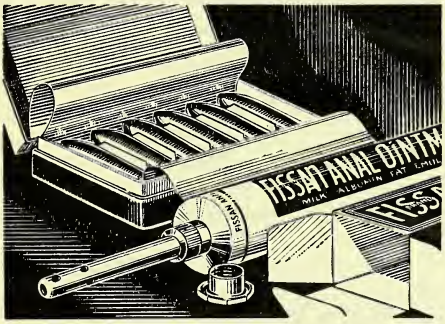
For drawing off small quantities of Acids from Carboys.

The Carboy can be tipped to any position with one hand.

LEIGH & SONS METAL WORKS
Orlando St., BOLTON

'FISSAN'
ANAL OINTMENT
AND SUPPOSITORIES

for
haemorrhoids,
anal fissures
and
anal pruritus



'Fissan' Anal Ointment and Suppositories contain astringents, anti-pruritics, and emollients and exert a powerful soothing action on anal lesions. They are excellent for the palliative treatment of haemorrhoids where injection or operative treatment is unnecessary or undesirable.

		Trade price ex. P. Tax	*Retail price*
'Fissan' Anal Ointment	20 gm. tube	12/- doz.	1/6d. + 4d. P. Tax.
	4 oz. jar	36/- doz.	4/6d. + 1/- P. Tax.
'Fissan' Anal Suppositories	Box of 6	12/- doz.	1/6d. + 4d. P. Tax.
	Box of 12	24/- doz.	3/- + 8d. P. Tax.
	Box of 48	86/- doz.	10/9d. + 2/5d. P. Tax.

10% Discount on £5 display parcels

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Telephone: Loughborough 2292

T.213

In pursuit of protein

So accustomed have we become to thinking of Bemax mainly as a rich natural source of the vitamin B complex that its high protein content is not always fully appreciated.

Compare, for example, the *protein* content of bacon and Bemax. The 2-oz. bacon ration should provide, in a week, about 6.2 grammes of first-class protein. *One* daily tablespoonful of Bemax will provide, in the same period, more than 30 grammes of *first-class* protein.

The protein value of Bemax in terms of essential amino acids is well demonstrated in this table of assay figures (copyright).

arginine	2.5%	phenylalanine	0.9%	leucine	2.1%
histidine	0.9%	cystine	0.3%	isoleucine	1.3%
lysine	1.8%	methionine	0.5%	valine	1.6%
tryptophane	0.3%	threonine	1.2%		

Bemax ***stabilised cereal embryo***

BEMAX TABLETS

are available in cartons containing 60 or 120 tablets retailing at 1/6d. and 2/6d. respectively.

Vitamins Limited

Upper Mall, London, W.6.

It's NEW! and available for immediate delivery

SWANDOWN SHAMPOO

QUICKER FOAM MORE SHAMPOOS

Retailing at 1/6½d. per bottle (Inc. Tax)

From your Wholesaler or direct

SWANDOWN COSMETICS, BRENTFORD AVENUE, WEMBLEY, MIDDX.

BOON

PAC

BOON SKIN EMULSION

contains the chemotherapeutic bactericides *Diphenyl - iodonium - chloride (KATIODIN)* and *Dichloro - dimethyl - dihydroxy - diphenyl - trichlorethane (PARISEPSAN)*. Harmless to the skin tissues, it is effective against both Gram-positive and *Gram-negative* organisms, producing rapid results in the treatment of cuts, burns and bacterial affection of the skin.

4oz. bottles retail 3/0½; Trade 20/- doz. plus P.T. 6/6., with generous quantity discounts.

Manufactured by

BOON DORAL LIMITED, MANCHESTER, 2

and distributed in the U.K. by

A. M. ASHFORD LIMITED

HUNTER ROAD, SHEFFIELD, 6

Less to spend on beauty *means more* SNOWFIRE SALES

NEW SNOWFIRE packs are colourful, lovely — and all feature this silhouette. Display them — for new customers, more cosmetic profits!

As you know, women are spending their money much more carefully these days. So customers are more than ever interested in Snowfire beauty preparations with their charming new packs and their famous fine quality. No wonder more and more women are buying Snowfire! Be sure your stock of Snowfire beauty preparations is ready for the growing demand.

F. W. HAMPSHIRE & CO. LTD., SUNNYDALE, DERBY.

LOSALL'S

HALIBUT LIVER OIL CAPSULES

RETAIL PRICE 2/- .. 15/6 doz.
-do- 4/6 .. 34/6 doz.
TAX FREE

WE CAN SUPPLY BY RETURN POST

LOFTHOUSE & SALTMER LTD.
MANUFACTURING CHEMISTS
HULL

Here is the larger of the two packs of Daisy Tablets which may become more popular than the neat and trim 4d. size. You will like the new 1/5 pack. A really good formula (A.P.C. with Piperine—perhaps the best of all A.P.C. combinations), a first-rate pack—a popular price and generous profit.

UNIVERSALLY ADVERTISED

Limited supplies of this handsome display carton are still available and will appeal to the Chemist who seeks to establish the 1/5 Price Standard. Order from your Wholesaler: 1 Display carton (1 dozen), 1/5. Daisy Tablets at 9/6, plus Tax. (P.A.T.A.)

J. E. ELLIS LTD., HORSFORTH, LEEDS

C. J. HEWLETT & SON LTD.

35-43 CHARLOTTE STREET, LONDON, E.C.2

NOW OFFER A 7-DAY DELIVERY SERVICE
ON THE

SAME DAY EACH WEEK

AS FAR AS

LETCHWORTH *in the NORTH*
REIGATE *in the SOUTH*
MALDON - SHEERNESS *in the EAST*
MAIDENHEAD *in the WEST*

Write for details and for copy of Price List soon to be issued

'Madonna

HAIR NETS FOR ELEGANCE

These nets are designed to give discreet yet effective protection to the carefully styled head. They can be bought to match any tone or hair style, and—*good news*—these are now available in unlimited quantities.

Wholesale and Export.

ROBERT SHAW & CO. LTD., NOTTINGHAM

Manufacturers of "Surefit," "Venus," "Madonna" and Uneeda" Hair Nets.

Gum Tragacanth
N.S. DANGOOR LTD.
Suppliers to the Industry
PROVINCIAL HOUSE, 98-106 CANNON STREET, LONDON, E.C.4.

Now Available!

ORDER NOW WHILST THEY ARE STILL AVAILABLE FOR THE **HOME MARKET**

Behind the "Allure" Perfume Hairbrush is the heavy and sustained advertising at home and abroad which for years has been building up to this moment when, for the present, at least, we can fulfil all your orders.

The "Allure" Perfume Hairbrush is advertised by Showcards on all London Underground trains and on slides in cinemas throughout Great Britain.

Give these brushes prominent display and always show one brush apart as this calls attention to the fact that it is not an ordinary brush.

PRESS ADVERTISEMENTS REGULARLY APPEAR IN

Picture Post
Tatler & Bystander
Punch
Sketch
Vogue
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Lady
and many other journals

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Why Doctors Prescribe Veracolate

VERACOLATE TABLETS are composed of the combined bile-salts—sodium taurocholate and glycocholate—together with cascara, phenolphthalein and capsicum. VERACOLATE encourages the production of normal bile and keeps it freely flowing; it maintains cholesterol in solution, removes excess mucus, promotes peristaltic stimulation and evacuation. It is selected by physicians:

a for functional insufficiency of the liver to stimulate bile secretion and bile flow,

b for infections of the biliary tract, obstructive jaundice and sluggish biliary drainage,

c for stimulating bowel evacuation during and after pregnancy.

Literature and samples supplied on request

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William R. WARNER and Co. Ltd. OMNIS ORBIS WARNER POWER ROAD, LONDON, W.4.

Top Radio Stars now go to work for YOU selling KOLYNOS

TRADE MARK

DENTAL CREAM

STANELLI & Marise: O.K. for Smiles!

RADIO star Stanelli entertains Marise, his 11-year-old daughter. Her smile is as pretty as her party dress. Her famous father has taught her his sure way to keep smiles radiant—'Kolynos' morning and night. "Tastes lovely", she says, and its lustre-foam keeps teeth sparkling white and clean. Make your smile winning—change to 'Kolynos' Dental Cream today

KOLYNOS TRADE MARK
DENTAL CREAM
Its refreshing lustre-foam MAKES YOUR TEETH SHINE LIKE THE STARS

Here are Stanelli and his attractive daughter Marise

THIS ADVERTISEMENT with its unusual appeal will be seen and read by millions—in all the leading newspapers and magazines.

Among other Stars helping you to sell 'KOLYNOS' Dental Cream are Stanley Holloway and son, and Vera Lynn and daughter. Look out for them in your paper — your customers will.

Millions of tooth paste users are turning to the fine dental cream preferred by their radio favourites. Remind your customers to buy their 'KOLYNOS' from you. Display 'KOLYNOS' on your counter and in your window. There are attractive cards showing the Stars and their children — they will be sent to you free on request.

Also available is a valuable *free* perspex display unit for quantity orders.

INTERNATIONAL CHEMICAL CO. LTD.
CHENIES STREET, LONDON, W.C.1

50 YEARS OF SERVICE

M & W

TABLETS
LOZENGES
CAPSULES & PILLS

FOR HOME & EXPORT MARKETS
Qualified pharmaceutical supervision throughout manufacture ensures full therapeutic activity, accuracy of dosage and elegant finish. Customer's own ingredients can be processed. Own name formulæ a speciality.

All B.P., B.P.C., and N.(W)F. Preparations exempt from P.T. by label.

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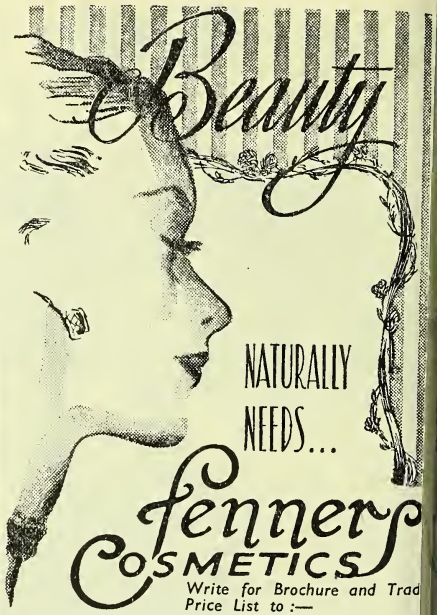

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DRIED YEAST
MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

TAMPAX
SANITARY PROTECTION
Worn Internally

MILLAMALT
The VITAMIN
MALT FOOD
Sole Manufacturers
With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.
JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN. London Dept.: 19 Brookside Rd

TOILET PREPARATIONS DE-CONTROL

R. Demuth Ltd. have pleasure in announcing that they are now able to supply unrestricted quantities of their following well-known lines:—

Product	Standard Wholesale price	Purchase Tax	Retail Price inc. tax
FROZOCLONE	18/8 per doz	100%	3/11 each
CARNATE NAIL POLISH	17/4 ,, ,,	100%	3/8 ,,
TALCUM TOILET POWDER	16/- ,, ,,	100%	3/4 ,,
SPIC COLOUR TONE HAIR RINSES (2 RINSES PER WALLET)	18/- ,, ,, of 3 dozen wallets (Min. Qnty)	100%	wallet 1/3 ,,
SPIC CREAM DEODORANT	16/4 ,, ,,	33⅓%	2/6 ,,

R. DEMUTH LTD., Farnham, Surrey FARNHAM 5194

MOTH MENACE MASTERED!

Q.: Isn't there any way to keep things safe from moths? My fur coat's ruined!

A.: **The only safe way is to keep moths right away. It's no use killing them if they've had a chance to lay their eggs. You see, it's the grubs that do the damage.**

Q.: Yes—but how can you keep them away?

A.: **Try these—Mothaks. No moth will come anywhere near a Mothak. Smell . . . pleasant, isn't it? But it contains the most powerful moth-repellent known—PARADICHLORBENZENE.**

Q.: Ah! That must be the stuff I remember hearing about . . .

A.: **Well, in Mothaks you get it in its most convenient and effective form.**

Q.: I must have some. How much are they?

A.: **8 for 8d.**

and so another Mothak customer was made—another source of repeat and 'recommendation' sales!

Put Mothaks where your customers can see them. It pays! Tie up with Mothak advertising—feature the bright sales-making Mothak display material. Every bag shows you a good profit—every bag brings repeat sales. For supplies and display material, write to Thompson & Capper Wholesale Limited, Speke Hall Road, Liverpool, 19.

IT PAYS TO PUSH

MOTHAKS

Mothers will thank you for introducing them to Johnson's BABY LOTION for easier, quicker, pleasante nappie changes

Mothers already know and love Johnson's Bab Powder. Make sure they also know about Bab Lotion. Baby Lotion means additional busine for you—a saving in time an trouble for mothers. There never been anything like before.

★ *Johnson's Baby Powde for after the ba*

★ *Johnson's Baby Lotion for nappie chang*

BABY LOTION cleans perfectly—soap and water are seldom needed—saves time, trouble (and the soap ration) at nappie changing times — prevents nappie rash — contains a gentle antiseptic—not sticky, won't spoil clothes—ideal for sunburn, windburn and any little skin roughness or soreness.

Baby Lotion is an EXTRA for you to sell

JOHNSON & JOHNSON (GT. BRITAIN) LTD. SLOUGH AND GARGRA

Arctic Glow

TRADE MARK

ANALGESIC BALSAM

MENTHOL & WINTERGREEN CREAM

This product like all other " Broparco " preparations is of the highest uniform standard of quality and value. All our goods are manufactured under the personal supervision of qualified Chemists.

Arctic Glow in two sizes—2-oz. screw-capped jars and 1-oz. collapsible tubes.

Sole Manufacturers:
BROOK, PARKER & CO. LTD.
BRADFORD

VELOUTY de DIXOR

The ORIGINAL Combined POWDER CREA

DIXOR LTD. ST LEONARDS WORKS, MORTLAKE, S.W.14

For bottle fed Children & Invalids

Malted

SLIPPERY ELM FOOD

EST · 1812

A nourishing food of high dietetic standard, containing the ground inner bark of Ulmus fulva. It makes an excellent body building food for bottle fed children, and a valuable food for invalids.

TWO SIZES. P.A.T.A.

1-lb. tins 2/3. 20/- doz. 2-lb. tins 4/-. 36/- doz.

No Purchase Tax.

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77 DANTZIC STREET, MANCHESTER

Phone: Blackfriars 8734 Grams: Horehound, Manchester

A woman wants two things from a beauty cream . . .

She expects it to perform make-up magic—to hold powder smoothly, lastingly, and to make her prettier right this minute. But she also expects it to care for her skin—to improve its texture, make it smoother, help it to resist wrinkling. SKIN DEEP does both of these things.

Made from Atkinsons newest formula for the day and night care of the skin, SKIN DEEP holds make-up perfectly by day and acts as a rich skin food by night. As the years go by the natural substances which keep the skin pliable and able to resist wrinkling dry up. SKIN DEEP, blended from oils closely resembling the skin's natural oils, preserves the complexion against wind, weather and loss of elasticity caused by the march of time.

ATKINSONS

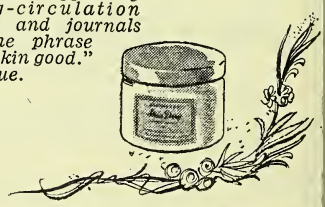
Skin Deep

BEAUTY CREAM

FOR DAY AND NIGHT USE

All Skin Deep

advertisements appearing in the big-circulation magazines and journals feature the phrase "does the skin good." And it's true.



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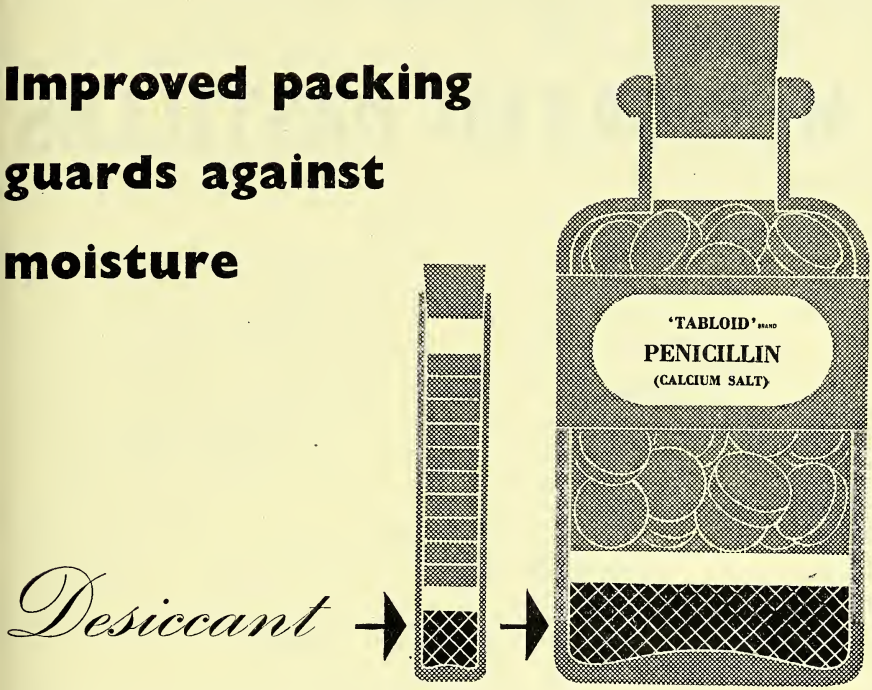
ATKINSONS OF OLD BOND STREET, W

Improved packing guards against moisture



As an additional safeguard against moisture, which in time affects the potency, a desiccant is now included in all packs of 'Tabloid' Penicillin. The desiccant acts as a "tell-tale," turning from blue to pink if excess moisture is present. The range of products packed with a desiccant includes 'Tabloid' Penicillin Hypodermic, 'Tabloid' Penicillin Lozenge, 'Tabloid' Penicillin for oral administration, and 'Tabloid' Penicillin Hypodermic (Veterinary). The outstanding quality of these products is maintained, and list prices are unaltered.

'Tabloid' BRAND Penicillin Products

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

MEDICATED PASTILLES

Cherry Cough
Childrens Cough
Carrageen Moss
Friars Balsam
Bronchial

Catarrh
Cough
Antiseptic Throat
Compound Syrup
of White Pine

&

"Pellæ" Brand
Compound Glycerine of Thymol

Enquiries solicited for—

SPECIAL FORMULÆ & SPECIAL LABELLING

WARRICK BROS. LTD.

4, 6, 8 & 10, NILE STREET,

LONDON, N.1.

The
CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
JULY 17, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London,"
Single copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3569 Volume CL

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NEWS OF THE WEEK

N.(W.)F. Amendments.—The amendments to the National (War) Formulary announced recently by the Ministry of Health (see *C. & D.*, July 3, p. 13) take effect on August 1.

Business Premises Vote. — The Home Office announces that applications for votes in respect of business premises of an annual value of not less than £10 must be made by July 31.

Infants' Ration Books.—From July 18, when the new ration books come into use, the food office endorsement "P.I.M.F. to (date of first birthday)" which provides the authority to dealers to supply proprietary infant milk foods, will appear on p. 13 instead of p. 6.

Retail Sales in May. — Retail sales by chemists in May, as measured by the Board of Trade index, were 10.2 per cent. higher than a year earlier for Great Britain as a whole. An outstanding fall in sales was registered for Central London of 20.7 per cent., possibly attributable to a smaller demand for cosmetics.

Pricing of N.H.S. Prescriptions. — Chemist contractors under the National Health Service Act who have more than one set of premises are being asked by the Ministry of Health to forward to the Clerk of the Executive Council in separate bundles (each containing the modified invoice form provided) the prescriptions for each pharmacy under their control.

Stamping of Insurance Cards. — Employers with at least fifty regular employees, says the Ministry of National Insurance, can obtain permission to stamp their employees' National Insurance contribution cards at quarterly, half-yearly or yearly intervals instead of weekly. Details of the arrangements are given in Leaflet N.I.21, obtainable from any local National Insurance Office.

Import Restrictions. — The Board of Trade has issued a new consolidated list of import restrictions, incorporating all amendments to the former list (issued March 1947) so far as they are still operative. Copies of the list — the Control of Imports into the United Kingdom, Notice to Importers No.

292 — may be obtained from the Import Licensing Department, Board of Trade, 189 Regent Street, London, W.1.

Eire Duty on Imported Malt.—To ensure the continued production of Irish malt extract, the Eire Government has imposed a 50 per cent. (full) and 33⅓ per cent. (preferential) *ad valorem* Customs duty on malt extract and any preparation consisting of malt extract and fish-liver oil. Duty-free importation may be authorised where necessary by the Minister of Finance.

Dressing Prices Increase.—The following price increases are announced by the National Pharmaceutical Union:—Cotton wool, B.P.C.: 1 oz., 5½d.; 2 oz., 9½d.; 4 oz., 1s. 5½d.; 8 oz., 2s. 8d.; 16 oz., 5s. 1d. Cotton wool (hospital): 16 oz., 3s. 8½d. Wool, boric, B.P.C.: 1 oz., 6d.; 2 oz., 10½d.; 4 oz., 1s. 7½d. Gauze tissue (best): 1 oz., 6½d.; 2 oz., 1s. 0½d.; 4 oz., 2s.; 16 oz., 6s. 7d.

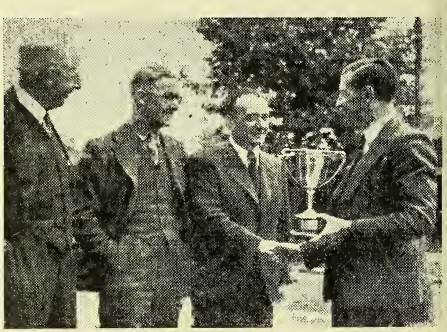
Mycological Conference.—Problems of plant pathology applied to Colonial agriculture are to be discussed at the fourth Commonwealth Mycological Conference to be held in London, July 19-24. The agenda of the Conference includes discussion on the control of plant virus diseases, the prevention of the transmission of seed-borne parasites, and new developments in fungicides.

Payment for N.H.S. Appliances.—The Ministry of Health states that specifications for those appliances which are included in the third schedule to the National Health Service (General Medical and Pharmaceutical Services) Regulations, 1948 (see *C. & D.*, April 3, p. 439) but which are not included in the existing Drug Tariff, are to be circularised to chemists "at an early date." Meanwhile prescriptions for such appliances should be endorsed with the net cost of the items supplied.

Tribute to Insurance Committees.—Mr. John Edwards (Parliamentary Secretary to the Ministry of Health), addressing members of the London Insurance Committee at its final meeting on July 1, said the finest tribute to the work of Insurance Committees was the decision to base much of the new National Health Service on the existing arrangements. Insurance Committees had generously assisted Executive Councils from the very beginning, and wherever possible the Minister had included Insurance Committee members among his appointments to Executive Councils.

LOCAL NEWS

Visits to Horsham Works.—Visits to the Horsham factory of Ciba Laboratories, Ltd., have been paid recently by two parties of Hastings pharmacists, students of the Brighton School of Pharmacy, and members of the Socialist Medical Association.



STAFF GOLF COMPETITION. — Members of the staff of Herts Pharmaceuticals, Ltd., recently played in a bogey competition for a cup presented by Mr. F. G. Moore (managing director). Messrs. E. Fenton, L. McGavin and W. Taylor tied for first place. The illustration shows the cup being handed to the winners by Mr. A. Grimshaw who was the winner in 1947.

Hull Officers.—The following officers of the Hull Chemists' Association, and the Hull Branch of the Pharmaceutical Society were elected or re-elected at the annual meeting on July 9:—*President*, Mr. B. Foster; *Vice-presidents*, Messrs. T. Harrison and Mr. J. Barrit; *Secretary*, Mr. J. J. Small, 3 Allderidge Avenue, Hull; *Treasurer*, Mr. N. Harrison; *Minute Secretary*, Mr. W. T. Brown; *Social Secretary*, Mrs. E. A. Brocklehurst.

North-east Midland N.H.I. Statistics.—The report for 1947 of the North-east Midland Prescription Bureau, Sheffield, issued recently, gives the number of National Health Insurance prescriptions priced as 5,124,691 during the year (total cost, £401,295). The average dispensing fee was 6.3d. (against 2.6d. in 1916, the first year in which the Bureau operated), and the average ingredient cost 12.5d. (against 3.1d.). In the lifetime of the Bureau, 119,177,419 prescriptions, valued at £4,696,802, have been priced.

Hounslow N.P.U. Branch. — A new Hounslow Branch of the National Pharmaceutical Union has been established to cater for members in Ashford, Cranford, Feltham,

Hanworth, Hounslow, Isleworth and Whitton. The officers are:—*Chairman,* Mr. W. H. Bowden; *Vice-chairman,* Mr. A. F. Stronach; *Secretary* and *Treasurer,* Mr. W. H. L. Dunn, 740 Bath Road, Cranford. Arrangements have been made for a rota.

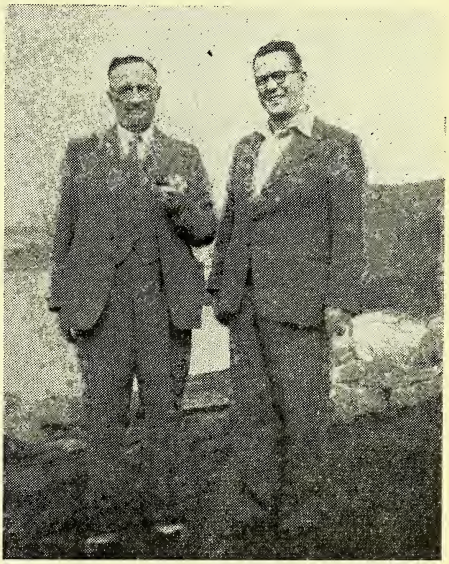
Chemists' Golfing Events.—The winners in competitions held by the London Chemists' Golfing Society at Sundridge Park on July 7 were:— Burgoyne cup (medal competition), Mr. L. J. Morson; Leichner cup (bogey), Mr. Don Carter.—In a competition for the Woolley trophy played by the Manchester Pharmaceutical Golfing Society on July 7, Messrs. F. D. Gee and J. Taylor tied with 79 each. Mr. Taylor was awarded the trophy on his score for the last nine holes. In a ladies' putting competition, Mesdames Clarke and Kearns won prizes which were presented by Mrs. G. S. Woolley.—In a recent outing at Kilspindie, twenty-eight members of the Edinburgh Chemists' Golf Club competed for the Crookes trophy and the Duncan Flockhart tankard. The results were:—Mr. W. S. Thomson, 66; Messrs. J. A. Acott and A. Boyle, 68 each; best scratch score, Mr. N. Stephens, 75.

Farewells to N.H.I.—A dinner to wind up the Liverpool Insurance Committee was held on June 28. Mr. A. J. Murnaghan (chairman, Liverpool Executive Council) who presided, said that under National Health Insurance there had been in Liverpool 218 contracting chemists, with 270 shops. The good service given by chemists and doctors for thirty-five years with an almost complete absence of complaints would be continued. Among a number of gifts to Mr. Gill Hodgson (clerk to the Committee) was a cheque presented by Mr. J. L. Hirst on behalf of pharmacists in the area of the Committee.—The final meeting of the outgoing Birkenhead Pharmaceutical Committee, held at Rock Ferry on June 25, was followed by a dinner at which members were the guests of Mr. F. Snow (secretary). Proposing a toast to the chairman (Mr. T. Stephen Jones), Mr. Snow paid a tribute to his services on numerous committees throughout twenty-nine years. His inability to serve on the new Pharmaceutical Committee, said Mr. Snow, was a serious loss. A toast to Mr. Snow was proposed by Mr. F. Haworth. Mr. Jones, on behalf of the committee, then made a presentation to Mr. Snow, who spoke acknowledging the gift. Mr. A. Williamson proposed "The Old Committee."

IRISH NEWS

Ulster Chemists in N.H.S.—The Northern Ireland General Health Services Board states that by July 10 more than 400 of the 530 chemists and druggists and registered druggists practising in Northern Ireland had joined the National Health Service on the provisional terms offered by the Ministry of Health (see *C. & D.,* July 10, p. 46). Many further acceptances were expected. from replies then unexamined.

Irish Drug Association.—At a meeting of the Committee of the Irish Drug Association on June 28, Messrs. J. J. Roche (president), D. Woulfe (vice-president), and L. G. Smith were appointed to a Joint Committee with members of the Council of the Pharmaceutical Society of Ireland to investigate the practice of certain companies of withholding veterinary preparations from pharmaceutical chemists. The following new members were elected:—Messrs. J. S. Bennett, Ph.C., Cahirciveen, co. Kerry; P. J. Fleming, Ph.C., Roscommon; Thomas Murphy, Ph.C., Falcarragh, co. Donegal; P. O'Doherty, Ph.C., Carrigart, co. Donegal; and William Kennedy, Ph.C., Bunbeg, co. Donegal.



PRESIDENTS ON HOLIDAY.—Presidents of the Irish Drug Association and Pharmaceutical Society of Ireland (Messrs. J. J. Roche and P. A. Brady) pose for an informal snapshop while on holiday together in co. Donegal.

OVERSEAS NEWS

French Perfumes in Austria.—The first post-war French perfumery exhibition in Austria opened at Innsbruck on June 25.

Dutch Quinine for Russia.—Quinine is one of the products to be delivered to the U.S.S.R. under a trade agreement with Holland. The agreement covers the exchange of goods over a period of twenty months and, for some Dutch deliveries, a rather longer period.

U.S. Exports and Imports.—Exports of chemicals and related products from the United States during March were valued at $72,495,000, against $70,514,000 in the corresponding period of 1947. Imports of products in the same class were $10,123,000 and $10,174,000 respectively.

French Chemical Exposition.—An international exposition of pure and applied chemistry is to be held in the Université du Travail Paul Pasteur, Charleroi, during September. The exposition will coincide with the twenty-first congress of the Paris Society of Chemical Industry. The organising secretary is M. Maurice Fontaine, 3 rue de la Fenderie, Charleroi, France.

Australian Hospital Pharmacists' Conference.—The first conference of hospital pharmacists to be convened in Australia was held at the Royal Melbourne Hospital, recently, under the auspices of the Australian Society of Hospital Pharmacists. Subjects discussed included Dangerous Drugs regulations as applied to hospitals, and the bulk storage of drugs in hospitals.

U.S. Mint Crop Reports. — The U.S. Department of Agriculture announced recently that the condition of the peppermint crops in Indiana and Michigan was below normal owing to unfavourable weather in the spring, but spearmint had fared better. Although the early cold weather had retarded the Oregon and Washington peppermint crops in June the plants were healthy and vigorous.

South African Pharmacists.—The annual meeting of the Pharmaceutical Society of South Africa held in Cape Town in April considered a number of resolutions dealing with pharmaceutical services under any proposed national health scheme. One of the resolutions protested against the issue of medicines by health centres. Recently the Society, jointly with the South African Pharmacy Board, sent a deputation to the Minister of Health asking for a statement of policy on the pharmaceutical services.

PHARMACEUTICAL COMMITTEE APPOINTMENTS

Brighton. — *Chairman,* Mr. John Hughes; *Secretary,* Mr. T. Rees Morgan, Arundel Court, Arundel Road, Brighton.

Cornwall. — *Chairman,* Mr. H. Jory; *Vice-chairman,* Mr. S. Hall; *Secretary* and *Treasurer,* Mr. A. C. Cannon, 31 Boscawen Street, Truro.

Gateshead.—*Chairman,* Mr. P. Waton; *Vice-chairman,* Mr. H. Rutter; *Secretary,* Mr. J. R. Moffatt, 544 Durham Road, Low Fell, Gateshead, 9.

Manchester.—*Chairman,* Mr. H. Steinman; *Vice-chairman,* Mr. H. G. Pilling; *Treasurer,* Mr. J. G. Crossley; *Secretary,* Mr. T. Miller, 3 Wyngate Road, Hale.

Sunderland. — *Chairman,* Mr. H. Wardropper; *Treasurer,* Mr. W. S. Watson; *Secretary,* Mr. A. R. Riley, 55 The Green, Southwick, Sunderland.

Notts and Nottingham.—*Chairman,* Mr. F. W. Shepherd; *Vice-chairman,* Mr. F. L. King; *Treasurer,* Mr. J. R. Ball; *Secretary,* Mr. J. Spaanderman, 203 Sutton Road, Huthwaite, nr. Mansfield, Notts.

Portsmouth. — Messrs. A. G. Bradburn, M. L. Gregory, P. G. Howes, E. B. Johnson, T. A. Johnson and R. G. Tremlett (private contractors' representatives), A. E. Moor (co-operative society's representative), F. Woodcock (company chemists' representative), K. W. Ellery (hospital pharmacists'), and W. R. D. Voke (employees').

Blackburn.—Messrs. T. S. Nowell, W. H. Lightbown, L. Mossop, F. Gillibrand, H. N. Atherton and A. Hope (proprietors' representatives), R. Turnbull (company chemists' representative), H. Davey (co-operative society's representative), W. Pomfret (hospital pharmacists' representative) and G. Mercer (employees' representative). Mr. Lightbown has been appointed *Chairman* and Mr. Nowell *Vice-chairman.*

Sheffield.—Messrs. R. Blackburn, P. R. Childe, C. W. Hobson, G. H. Needham, E. Preston, L. Stocks, C. N. Thompson, A. Wragg and W. Wood (proprietors' representatives), F. Boot and C. S. Cross (company chemists' representatives), J. P. Barker (hospital pharmacists' representative), W. B. Dixon, C. A. Fox and H. Hall (employee representatives) and P. J. Byrne (co-operative societies' representative). Mr. Preston has been elected *Chairman,* Mr. C. W. Hobson *Vice-chairman* and Mr. S. Durham, 29 Stephen Hill Road, Sheffield, 10, *Secretary.*

TOPICAL REFLECTIONS

A Research Institute

The opening of the Sondes Place Research Institute will be welcomed by industrialists—and, indeed by everyone who realises the dependence of commercial development on research. The provision of a threefold basis of contract between the Institute and its clients is evidence of attention to detail in planning, foreshadowing the "active, useful and prosperous career" predicted by Sir William Larke at the opening ceremony. As you remark (p. 47), the prototype of this venture is to be found in the United States. The Mellon Institute of Industrial Research at Pittsburg, founded in 1913, is conducted on similar though not identical lines (*C. & D.*, 1944. 11.146). Experience of its thirty-five years' working has no doubt been available to the founders of the new Institute at Dorking. By a coincidence you published on p. 56 of the same issue (July 10) an important article headed "Surface-active Agents as Antiseptics." This is an example of "pure" science which needs to be read with care by those of us who are not fully conversant with investigations of this type: it throws fresh light on the *modus operandi* of soaps recommended for their bactericidal or bacteriostatic activity. It is obvious that while a department of a university may be willing to answer questions on a subject of this kind, it cannot undertake research devoted to the ends of a single manufacturing house. For applied research manufacturers must look elsewhere; in such circumstances the Sondes Place facilities should be invaluable.

"Scottish Department"

A request from the North British Executive of the Pharmaceutical Society that the Council should, by resolution, change the name "North British Branch" to the name "Scottish Department" has been granted (p. 60). Remembering "Nemo me (vel nos) impune lacessit," I refrain from jesting on so grave a matter, though it is not clear to me why a title which has served since 1851, or at any rate since 1853, could serve no longer. At the first annual meeting of the organisation Jacob Bell referred to the North British Branch and to "the other branch in England." In 1886, after a dispute with the Society's headquarters, a new constitution for Scotland was granted; under it the North British Committee became the North British Executive, the president the chairman, and the vice-president the vice-chairman. From the beginning till 1881 Mr. John Mackay, formerly an assistant to John Bell in London, was the branch secretary. He was followed by Mr. Peter MacEwan, who resigned in 1886 on joining the editorial staff of THE CHEMIST AND DRUGGIST. (As is well known, Mr. MacEwan was Editor of this journal from 1899 to 1917). Then came the long reign of Mr. John Rutherford Hill; and from 1936 to the present year Dr. Joseph Tait has been in charge of the Society's affairs in Edinburgh. This record of only four secretaries in ninety-seven years is, I think, unusual among learned societies: it would be of interest to obtain a few comparable statistics. From the beginning the Scottish office has been conducted on the same lines as the London office, including the organising of a library, a museum and evening meetings.

Lionel Lockyer

The epitaph on Lockyer, partly cited on p. 68, calls for a few lines of comment. Lockyer's massive tomb, with its grandiloquent inscription, in Southwark Cathedral is, I believe, a unique example of a tribute to an owner of proprietary pills. Two more lines from a masterpiece of flattery may be quoted: "A Name soe Great soe Generalle may scorne Inscriptions w'h doe vulgar tombs adorne." This jingling verse runs to twelve lines. In 1665 the "licensed physitian," as he called himself, issued a pamphlet entitled "An Advertisement, Concerning those most Excellent Pills Called *Pillulæ Radijs Solis Extractæ*. Being An Universal Medicine . . ." It appears that "a good ordinary dose" for an adult was four pills, weighing "some six Grains." For a child a month old one-eighth of a pill was recommended: the division of so small a pill was probably not easy in the household of that day. Each box contained "above One hundred Pills (sometimes more and sometimes less, according as they are in bigness)"; evidently the purchaser took pot (or box) luck. The price of each box was 4s., and that of the maker's pills for deafness 5s. As was usual then, the pamphlet contained an aswer to criticism; in this case the critic was described as "a pittyful rayling Sneak." Reference was made in the pamphlet to an anonymous trader who "sufficiently" experimented in chemistry with a loss of £975 and of his life; this presumably means that some amateur in science blew up his premises during an experiment.

Xrayser

COMPANY NEWS

WYRESIDE MEDICAL SUPPLIES, LTD. (P.C.).—Capital £300. To carry on the business of wholesale chemists and druggists, etc. Arthur Thomas and Elizabeth Thomas, directors. R.O.: Market Place, Garstang, nr. Preston.

D. S. WOOD (CHEMICALS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemical and produce merchants, etc. The first directors are not named. R.O.: 34 Baker Street, London, W.1.

SCOTTISH DYES, LTD. (P.C.).—Registered in Edinburgh.—Capital £300. To carry on the business of manufacturers of dyes, etc. John M. McEwing, Thomas McAlpine and William McAlpine, directors. R.O.: 420 Sauchiehall Street, Glasgow.

BIOMISATION, LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of, and dealers in, artificial fertilisers, chemicals, drugs, etc. Denis E. Nahum and Eric G. Finch, directors. R.O. The Grange, Uppermill, Saddleworth, Yorks.

VERMINSECTICIDE CO., LTD. (P.C.).—Capital £100. To carry on the business of destroyers of vermin, manufacturers of, and dealers in, insecticides, vermin exterminators, etc. The first directors are to be appointed. R.O.: 60 New Oxford Street, London, W.1.

J. W. DEWAR (NEWCASTLE), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist, druggist and optician carried on by Max M. Bromberg at 1 Warrington Road, Newcastle-on-Tyne. Max M. Bromberg and Mrs. Queenie M. Bromberg, directors.

HARVEY PHOTOCHEMICALS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturing, dispensing and analytical chemists and druggists, etc. The first directors are to be appointed. R.O.: 20 West Hall Road, Kew Gardens, Surrey.

P. D. NOWELL, LTD. (P.C.).—Capital £100. To carry on the business of pharmaceutical and general chemists, etc. John P. L. Duckett Nowell, M.P.S., Vera Duckett Nowell and Ada M. Albutt, M.P.S., directors. R.O.: 25 Park Parade, Harlesden, London, N.W.10.

BARBER MEDICO-ELECTRONIC LABORATORIES, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in instruments and accessories for surgery, therapeutics, laboratory research, etc. Arthur A. Barber, W. H. Ball and Ernest C. Finding, directors. R.O.: 47 Beaumont Road, Birmingham, 30.

C. A. STOKES (CHEMISTS & PHARMACISTS), LTD. (P.C.).—Capital £3,000. To acquire the business of chemists and pharmacists formerly carried on as "C. A. Stokes, M.P.S., Chemists and Pharmacists," at 107 and 595 Fishponds Road, 437 Stapleton Road and 423 Whitehall, Bristol, and 177 Charlton Road, Fishponds. Charles A. Stokes, M.P.S., and Adelena R. Stokes, directors. R.O.: 31 Lower Castle Street, Bristol, 1.

NIPA LABORATORIES, LTD.—Dr. Reginald Williams, F.R.I.C., has been appointed a director of the company.

MIDLAND BANK, LTD.—Interim dividend for the half-year ended June 30 is 8 per cent., less tax, the same as in 1947.

A. F. SHERLEY & CO., LTD.—Directors' report for the year ended March 31 shows a net profit of £6,782, against £7,280. £3,378 is brought in from previous year. Dividends, less tax, on 8 per cent. cumulative preferred ordinary shares and on deferred shares (20 per cent.), total £6,600; balance carried forward, £3,560. Sir J. Stanley Holmes, M.P., and Mr. B. L. Hobrow, the retiring directors, offer themselves for re-election.

BEECHAM MACLEAN HOLDINGS, LTD.—Directors' report for the year ended March 31 shows a net profit of £182,764, against £139,496, and £9,128 is brought forward from previous year. Dividends paid and accrued include £129,250 on ordinary shares (payable to parent company), compared with £64,625 in 1947. £12,716 is carried forward. Sir Brian Mountain, Bart., and Messrs. B. L. Hobrow and G. A. Dunbar, M.C., the retiring directors, offer themselves for re-election.

ENO PROPRIETARIES, LTD.—Directors' report for the year ended March 31 shows a net profit of £282,881, against £203,127, and £42,779 is brought forward. Dividends paid or accrued include £188,939 on ordinary shares (payable to parent company), compared with £200,750 in 1947. £50,000 is transferred to reserve and £51,157 is carried forward. Sir Brian Mountain, Bart., Sir Ernest H. Cooper and Mr. H. G. Lazell, the retiring directors, offer themselves for re-election.

VENO DRUG CO., LTD.—Directors' report for the year ended March 31 shows a net profit of £161,651, against £273,260, and £20,072 is brought forward from previous year. A final dividend of threepence per share on the deferred ordinary shares makes a total distribution of one shilling per share, less tax, compared with 2s. 3d per share in the previous year. £23,123 is carried forward. Sir Brian Mountain, Bart., and Mr B. L. Hobrow, the retiring directors, offer themselves for re-election.

MACLEANS, LTD.—Directors' report for the year ended March 31 shows a net profit of £144,165 against £193,499, and £22,486 is brought forward from previous year. Dividends paid and accrued include £99,000 on ordinary shares (payable to parent company), compared with £60,500 in 1947. £21,000 is transferred to reserve and £25,884 is carried forward. Sir J. Stanley Holmes, M.P. and Messrs. B. L. Hobrow, G. A. Dunbar, M.C. and G. P. Tottem, the retiring directors, offer themselves for re-election.

PRICHARD & CONSTANCE (MANUFACTURING), LTD.—Directors' report for the year ended March 31 shows a net profit of £8,466, against £26,106. £6,593 is brought in from previous year. Dividends, less tax, on 8 per cent. cumulative preferred ordinary shares and on deferred ordinary shares total £7,150; balance carried forward £7,150. Sir Arthur H. Marshall, K.B.E., and Messrs. Hubert A. Meredith, O.B.E., N. F. Fabricius and G. A. Dunbar, M.C., the retiring directors, offer themselves for re-election.

MARRIAGES

BLACKWOOD-DODDS.—At Glasgow, on July 3, David William Blackwood, B.Sc. (Pharm.), M.P.S., Main Street, Burnbrae, Milngavie, Dumbarton, to Janetta Donaldson, Milngavie.

EDWARDS-GARD'NER.—At Chiddingfold, Surrey, on June 26, Arthur William Edwards, M.P.S., New Dove House, Hatch End, Middlesex, to Beatrice, widow of the late Lieutenant-Colonel R. Dyce Gard'ner, M.C., Cross Glades, Chiddingfold, Surrey.

RAEBURN-MATHESON.—At Edinburgh, on July 6, William Fraser Raeburn, Turriff, Aberdeens, to Margaret Jean Matheson, eldest daughter of the late Mr. Jonathan Charles Matheson, M.P.S., Edinburgh.

STEWART-COWRIE.—At Buckie, Banffs, on June 24, William Edwards Stewart, M.P.S., 40 Belmont Lane, Chislehurst, Kent, to Mary Jane Cowrie, S.R.N., Buckie.

DEATHS

FENTON.—On June 21, after a short illness, Mr. Douglas George Swann Fenton, M.P.S., 111 George Street, Dunedin, C.I., New Zealand. Mr. Fenton qualified in 1922.

FIRMAN.—Recently, after a short illness, Mr. Thomas Leslie Firman, M.P.S. (address in register: 284 Baldwins Lane, Hall Green, Birmingham), aged forty-one.

HESSE.—On July 4, Mr. L. M. Hesse, sales director of Yardley & Co., Ltd., Old Bond Street, London, W.1.

JACKSON.—At his home in Australia on May 14, Mr. J. E. Jackson, known as the "grand old man" of the drug trade in Australia, aged eighty-seven. Born at Caerleon, Wales, Mr. Jackson spent twenty-five years as a representative in Scotland for Evans, Sons Lescher & Webb, Ltd., before "retiring" to emigrate to Adelaide in 1911. He decided to re-enter business life and joined A. M. Bickford & Sons, Ltd., Adelaide and Brisbane, as sales manager, and his subsequent career with the company was the subject of a paragraph that appeared in the *C. & D.*, 1946.II.659.

MASSEY.—At the Royal Masonic Hospital, on June 26, Mr. William Massey, M.P.S., 13 High Street, Guildford, Surrey, aged sixty-five. A native of Winsford, Ches, Mr. Massey qualified in 1907 and opened a pharmacy in Guildford in 1910, subsequently extending his business by opening three branches. He was a former secretary and president of the Guildford Pharmacists' Association, a past-president of the local Chamber of Commerce, chairman of the Joint Hospital Board and of the health committee of the local council, and a life governor of the Royal Surrey Hospital. Mr. Massey is survived by two sons, one of whom, Mr. Kenneth William Massey, M.P.S., will continue the business in association with his wife, Mrs. Sarah Elizabeth Massey, M.P.S.

MCCREERY.—On June 9, Mr. John McCreery, M.P.S., 29 High Street, Mablethorpe, Lincs. Mr. McCreery qualified in 1912.

WILLS

MISS G. J. P. ROBERTS, M.P.S., 66 Cheston Avenue, Croydon, Surrey, left £2,650 (£2,131 net).

MISS B. W. BURTON, M.P.S., The Manse, New Road, Stourbridge, Worcs, left £806 (£761 net).

MR. N. THORNLEY, retired pharmacist, 11 Hope Place, Liverpool, left £434.

MR. E. H. RIDLEY, M.P.S., 47 Bath Street, Finsbury, London, E.C.1, left £2,725 (£2,579 net).

MR. J. B. FRANCIS, M.P.S., Clifton House, Tenby, Pembroke, left £6,212 (£4,809 net).

MR. J. PARRY, M.P.S., Abbey Pumping Station, Corporation Road, Leicester, left £9,474 (£9,447 net).

MR. T. MACMASTER, M.P.S., 10 Varna Road, Jordanhill, Glasgow, left £19,079 (personal estate in England and Scotland).

MR. W. H. LEE, M.P.S., 54 Blackwell Avenue, Sprowston, Norwich, formerly with Sharpe & Dohme, Ltd., Hoddesdon, Herts, left £2,009, with net personalty £1,622.

MR. LEWIS MORETON PARRY, M.P.S., 130 Princes Road, Liverpool, secretary, National Association of Opticians, and a former president of the Pharmaceutical Society, left £4,440 (£4,140 net).

MR. B. J. KENT, M,P,S., Lindis Mead, Spilsby Road, Boston, Lincs, formerly a partner in Grimble & Kent, chemists, High Street, Boston, Lincs, left £7,889 (£7,829 net).

MR. H. H. THATCHER, M.P.S., The Moorings, Charlemont Road, Walsall, Staffs (managing director of Bannister & Thatcher, Ltd., chemists, Walsall), left £35,954 (£34,538 net).

MR. C. E. WARREN, Tanleather Cottage, Holmbury St. Mary, Surrey, a director of Burge, Warren & Ridgley, Ltd., druggists' sundriesmen, 45 City Road, London, E.C.1, left £187.

DR. B. S. DYER, D.Sc., F.R.I.C., F.C.S., F.L.S., 1 Lower Terrace, Hampstead, London, N.W.3, a former president of the Society of Public Analysts, left £57,004 (£56,551 net).

PROFESSOR J. M. GULLAND, F.R.S., M.A., Ph.D., D.Sc., F.R.S.E., F.R.I.C., Beeston, Notts, a former holder of the Sir Jesse Boot chair of chemistry, University College, Nottingham, left £5,111.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

"CAN the decision to restrict distribution of proprietary infant milk food to children under one year now be relaxed, in view of the hardship caused to children between one and two?" MR. H. E. RANDALL asked the Minister of Food.

MR. JOHN STRACHEY: I am afraid dried milk supplies still will not allow us to do this, but children of one or two years can get these milk foods at the request of a doctor .

Weed-killer Supplies

Farmers were unable to get sodium chlorate for killing weeds, said MR. LAMBERT. He asked the President of the Board of Trade what steps he was taking to make supplies available.

MR. J. W. BELCHER (Parliamentary Secretary) replied that it had not been possible so far this year to secure in full the imports of sodium chlorate which normally supplemented home production, "though I am hopeful of an early improvement in this respect." Meanwhile, on the advice of the Minister of Agriculture, he was arranging for as much as possible to be reserved for the destruction of potato haulms and for weed-killing on farmland. More would become available for the latter purpose as the demand for use on the potato crop diminished.

Replying to a question on weed-killers by Lieutenant-Colonel Clifton Brown on July 8, MR. HAROLD WILSON (President of the Board of Trade) referred the questioner to the reply given above. Agroxone, he went on, was not normally sold through shops. Supplies had recently improved, and demands from farmers would be met through "the usual marketing channels," said the Minister.

Distribution of Deaf Aids

"What progress has been made with the Minister of Health's arrangements for the distribution of deaf-aids under the National Health Act?" asked DR. S. JEGER on July 8.

MR. ANEURIN BEVAN replied that supplies of the magnetic type of Medresco hearing aid had been sent to four hospitals in England and Wales in time for them to begin operating the scheme on July 5. Supplies of the crystal type should begin to be available at the end of July. The number of distribution centres would be increased to about twenty-five as soon as possible.

German Patents

MR. R. R. STOKES asked the Foreign Secretary on July 7 whether German patents were still protected outside Germany. MR. C. P. MAYHEW (Under Secretary) replied that German patent rights in existence abroad on August 1, 1946, were German external assets to be liquidated in accordance with the terms of the Final Act of the Paris Conference on Reparation. The London Patents Accord of July 27, 1946, to which twenty-six nations were party, placed the majority of the patents in the public domain or made them available for royalty-free licensing, subject to certain exceptions. German inventions made after December 31, 1045, might be patented in the United Kingdom, the the United States and France, and receive normal protection.

Imports of Technical Publications

SIR WALDRON SMITHERS asked the President of the Board of Trade on July 8 when he expected to be able to give a decision on the importation of technical magazines from the United States. MR. HAROLD WILSON replied that he had now arranged that any person might import either for himself or on behalf of others, single postal copies of learned scientific and technical periodicals, and periodicals printed exclusively in a foreign language.

Restrictions on Electricity Consumption

In a statement on July 8 about the arrangements for spreading the industrial electricity load in the coming winter the Minister of Labour (MR. GEORGE ISAACS) included a reference to shops. It had been decided, he said, to place commercial consumers, including shops, offices, and warehouses, within the scope of the arrangements made for the regional boards in industry; they would also be required to reduce their consumption by twenty per cent. in peak hours on the same basis as industry.

Distribution of Welfare Foods

MR. B. JANNER asked the Minister of Food on July 12 whether it was still possible for expectant mothers to obtain orange juice, cod-liver oil and vitamin pills from chemists' shops, instead of having to collect them from local food offices, a visit to which usually entailed a bus journey and loss of time. DR. EDITH

SUMMERSKILL (Parliamentary Secretary) replied that there were difficulties in the way of distributions from chemists' shops, but the department was looking at the possibility. There were already, she stated, more than 1,200 distribution points.

Proprietary Medicines Prices

The cost of some proprietary medicines was raised in the House of Commons on July 12 by MR. A. M. SKEFFINGTON, who said it was most extraordinary that, despite the number of times the issue had been raised in the past, little had been done with regard to this industry "whose capital probably is more than £100 millions, and which makes some of its profits, at any rate, out of human credulity and human suffering, yet is almost uncontrolled." It seemed a little ludicrous, said Mr. Skeffington, that the country should be spending possibly £160 millions a year on providing services to look after the health of the people while buses, newspapers and hoardings carried inducements that might lead people not to take full advantage of the scheme. Before the war, the advertisement costs of the industry had been put at just under £3 millions, and he had no reason to suppose they were less today. He was not dealing with proprietary preparations advertised in medical and scientific journals, though "even here, of course, not every so-called ethical preparation is above suspicion," as professional men ought to be sufficiently qualified to use their own discretion. He thought attention should be drawn to the wide discrepancy between the basic costs of ingredients and the price at which advertised proprietaries were sold.

SIR IAN FRASER, who said he was a director of one of the companies concerned in making proprietary medicines, said that many of them were identical with preparations, recommended by doctors, which appeared in the British Pharmacopœia. The main burden of the previous speaker's case had been that they cost too much. Sir Ian pointed out that they were subject to 33⅓ per cent. tax, which raised the cost. They were extremely well packed, marketed and advertised. That added to the cost. And there was an element of service in the advertisements: not all people could see a doctor.

MR. JOHN EDWARDS (Parliamentary Secretary to the Ministry of Health) said there was a large number of statutes governing in one way or another articles which frequently were proprietary medicines. There was the Venereal Diseases Act, 1917, the Dangerous Drugs Acts, which severely controlled the sale of preparations like opium, cocaine and the like. There was the Therapeutic Substances Act, 1925, which covered the preparation and manufacture and sale of such things as vaccines and serums. There was the Pharmacy and Poisons Act, 1933, which dealt with the whole range of poisons. The Food and Drugs Act, 1938, made it illegal to sell a drug under a label that falsely described it or was otherwise calculated to mislead as to the nature, substance or quality. There was the Cancer Act, 1939. The law prohibited advertisements for the cure of diseases like Bright's disease, cataract, diabetes and epilepsy, locomotor ataxy, paralysis, tuberculosis and the like. It was wrong to say that there was no control, but the control was, of course, not concerned with prices, and there was no way under present legislation by which prices could be controlled. However, a fair amount of voluntary action had, he thought, improved the position. From July 5 everyone in the country was entitled to a comprehensive health service, and he believed that, by providing for everyone the medicines which the doctor considered necessary, there would be less inducement to buy medicines that made misleading claims. He did not imagine that doctors would prescribe medicines of the kind that had been mentioned.

"For the Public to Weigh Carefully"

"So I think we shall in a certain sense be helping to educate the public to take a more critical attitude towards claims that are made. Certainly in so far as these medicines are costly in relation to the cost of the ingredients, then it is for the public to be educated to weigh carefully the advantages of what they get against the costs." But not for one moment did he want to suggest that there was no place for simple household remedies.

BUSINESS CHANGES

INTERNATIONAL CHEMICAL CO., LTD., have closed their Glasgow depot. Orders should be sent to the company's London office, 12 Chenies Street, London, W.C.1.

THE BRITISH TAR CONFEDERATION and the COAL TAR RESEARCH ASSOCIATION have transferred their administrative offices to 9 Harley Street, London, W.1 (Telephone: Langham 1778).

MR. E. R. MCDONAGH, M.P.S.N.I., has acquired the pharmacy at Lisnaskea, Northern Ireland, formerly carried on by Mr. W. A. Murphy.

PERSONALITIES

Miss Agnes Lothian, Ph.C., librarian to the Pharmaceutical Society, who was congratulated by the chairman of the Council's Establishment Committee recently on the excellent way in which she kept the library up to date (see *C. & D.*, July 10, p. 60) has held her appointment since September 1940. Miss Lothian is the daughter of the late Mr. John Lothian, Ph.C., who was well known to pharmacists in Glasgow and Edinburgh. After qualifying as a Pharmaceutical Chemist from the Heriot Watt College, Edinburgh, in 1926, she served for three years with Mr. W. H. Fowler, Redhill, Surrey, and for ten years with Allen & Hanburys, Ltd., Vere Street, London, W.1, first as "wholesale" dispenser and finally as senior dispenser. In 1944 she was elected an Associate of the Library Association, and in 1946 attended, on behalf of the Society, the first post-war conference, held at Yale School of Medicine, Newhaven, Conn., U.S.A., of the Medical Library Association. While in the United States she studied methods and equipment in some twenty-four famous medical libraries in the Eastern States and also found opportunity to visit the American Pharmaceutical Association, Washington, D.C., the Philadelphia College of Pharmacy, a number of wholesale houses, and some notable pharmacies in Washington, Baltimore and New York. Miss Lothian makes a hobby of collecting drug jars and illustrations of drug jars.

Mr. J. Ross-Mansell, B.Sc., M.P.S., has resumed his Ph.D. degree awarded to him in 1929 by the University of Munich for the thesis "The Ultra Microscopy of Colloidal Structures."

Mr. S. J. Stearn, M.P.S., J.P. (chairman of the Ipswich Pharmaceutical Committee) has been appointed vice-chairman of the Ipswich Executive Council.

Mr. H. M. Tranmer, M.P.S., Smethwick, who attended the final meeting of the Smethwick Insurance Committee recently, was chairman of the Committee, 1932-34. He was the only member to have served continuously on the committee since its inception in 1912.

Mr. F. J. C. Lawford, who has retired after twenty-eight years as Scottish manager for the International Chemical Co., Ltd., London, was presented with a cheque for £500 and an illuminated address at a dinner held in his honour at Glasgow recently. On the address was recorded the company's gratitude for his long service. Mr. Lawford's assistant for many years—Mrs. Kilbride—was presented with a cheque for £100.

Mr. John J. O'Regan, M.P.S.I., who has been appointed chairman of the Cork Guild of Pharmacy, is a founder member of the Guild. Apprenticed at Fielding's Pharmacy, Cork, Mr. O'Regan obtained his assistants' certificate in 1932. He remained with Messrs. Fielding until 1940, when he joined the staff of Abbott Laboratories (England), Ltd., London. After training, he served as Southern Eire medical representative with the company until 1946, when he set up business on his own account at 72 Barrack Street, Cork. He passed his final examination in 1943.

Mr. R. Stuttard, M.P.S., F.S.M.C., who was recently elected this year's chairman of the Junior Section, Blackpool Branch of the Pharmaceutical Society, served as vice-chairman during 1947, the year in which the Branch was formed. In 1932 he became apprenticed to his father, Mr. F. H. Stuttard (a past-president and past-secretary of the Blackpool Branch), in 1937 qualified as an optician (F.S.M.C.) and in 1939, after studying at Manchester University, qualified as a chemist and druggist. In 1940 he joined the Royal Army Medical Corps, serving for six years as Staff-Sergeant. In addition to his work with the Junior Section, Mr. Stuttard is also a member of the committee of the Blackpool Branch of the Society. He is managing his father's pharmacy and optical business at 5 Market Place, Poulton-le-Fylde, Lancs.

USE OF RADIOISOTOPES IN THE UNITED STATES

SEVENTY per cent. of all deliveries of radioisotopes from the American Atomic Energy Commission's Oak Ridge pile are being used for investigations in therapeutics and in human and animal physiology. This was revealed by Dr. P. C. Aebersold, chief of the Commission's isotope division, to the annual meeting of the American Medical Association in Chicago recently. 229 research institutions are taking part in the investigations, which are designed to explore metabolism, vascular functioning, infection, drug action and other problems.

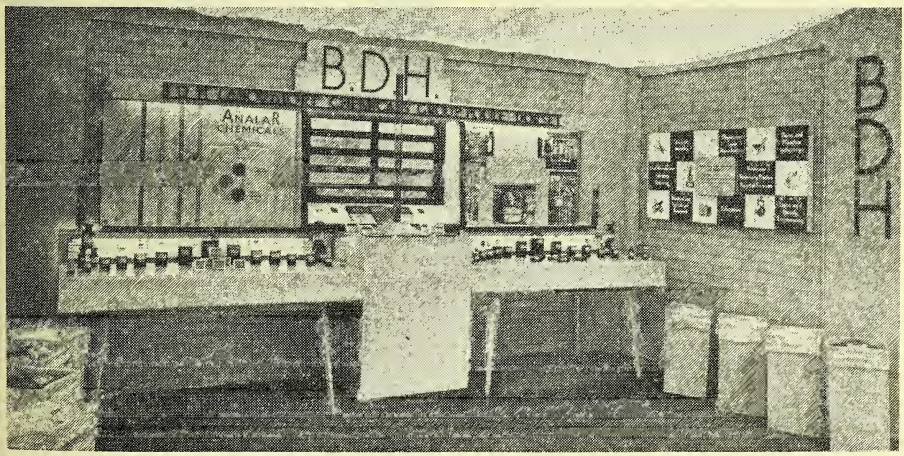
Research on Tumours

Radioactive gold (Au^{199}) has been used by Sheppard and his associates ("Journal of Laboratory and Clinical Medicine," 1947.32.1437) in the treatment of malignant tumours. Tumour masses of Hodgkin's disease, lymphosarcoma, chronic lymphatic leucæmia and squamous cell carcinoma of the nose and eyelid all decreased. Beta radiations emitted by radioactive gold have a relatively short path and therapeutic effect can be produced in the tumour tissue with little damage to the surrounding normal structures.

The effects of drugs upon the thyroid can be judged more accurately if the rate of iodine uptake in the gland is determined before medication. Using the radioactive element I^{131}, Astwood and Stanely, of Tufts Medical School, Boston ("Western Journal of Surgery," 1947.55.625) observed thyroid activities in both healthy and diseased persons. Radioactive iodine (0.1 millicurie) was given by mouth without carrier iodine, and a shielded Geiger counter was placed over the thyroid. (The count begins to increase after a few minutes to half an hour, rises steadily for another half hour, then slowly diminishes in a parabolic curve.) A single dose of 100 mgm. of propylthiouracil completely stops collection of iodine within half an hour; larger doses have longer effects. The same compound given beforehand greatly limits the uptake of I^{131}.

Treatment of Hyperthyroidism

Radioactive iodine, according to W. S. Reveno, Wayne University College of Medicine ("Modern Medicine," 1948. 16.44), is effective in hyperthyroidism through delivery of internal radiation by beta rays. Goitres diminish in size. Fibrosis may develop, however, and myxœdema and radiation sickness may occur. It can be used to "prospect" for substernal enlargement, aberrant thyroid tissue and metastatic thyroid carcinoma. Radioactive iodine offers a valuable means of treating metastases of thyroid malignancy. Reveno says that it is dangerous to handle, and the ultimate effect on patients is still undetermined.



POOLE INDUSTRIAL EXHIBITION.—Analytical reagents, indicators and industrial chemicals manufactured by The British Drug Houses, Ltd., at the company's Poole factory, were displayed at a Poole Industrial Products Exhibition held recently. At another stand products (for export only) made in the Poole factory of Max Factor, Ltd., were shown in a setting that emphasised the company's staff welfare arrangements.

TRADE NOTES

Empties Required.—An urgent appeal for the return of empty cases for Andrews liver salt is made in this issue by the manufacturers, Scott & Turner, Ltd., Andrews House, Newcastle-on-Tyne, 2.

In Black and White.—Likely to attract attention in any perfumery display is Voodoo, a new perfume by Picot. Its black-capped, black-ribboned, black-and-white-labelled bottle fits securely into a display-base that is also part of a rigid white-edged black box on which the label motif is repeated. The manufacturers are Picot, Ltd., 191 Hammersmith Road, London, W.6.

Extensive Advertising.—A nation-wide advertising campaign commenced in June and is being continued throughout July and August for Silktona leg make-up. The sole distributors are Alfred Franks & Bartlett, Ltd., Audrey House, Ely Place, London, E.C.1.

Offer of Scale Drawing.—Penn's (Shop-fittings) Display Co., 2 Northumberland Park, London, N.17, offer in this issue to supply a plan, drawn to scale, of any chemist's shop window for an arrangement of their Rodre system of steel rods with patented clamps and brackets.

Delivery Plans.—C. J. Hewlett & Son, Ltd., manufacturing chemists, 35 Charlotte Road, London, E.C.2, state that their deliveries to chemists in and around London will be at weekly intervals on the same day each week. Country districts previously served quarterly will in future receive an eight-week delivery.

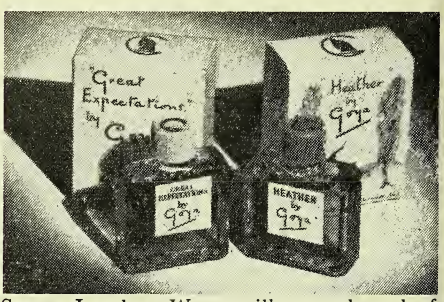
Photographic Sales Centre. — A commercial reception department for photographic firms has been opened on the ground floor of their Kingsway offices by Kodak, Ltd., London, W.C.2. In the department are a complete range of equipment, a staff of technical salesmen, a cine projection room, studio and darkroom.

Children's Cough Pastilles. — Included in a range of preparations issued by Brynn Manufacturing Co., Ltd., Ashton-in-Makerfield, Lancs, for treating coughs (the other items in the series are Jaybee No. 3 cough mixture and cough pastilles) are John Bunny children's cough pastilles, issued under a colourful label, the central feature of which is a white rabbit. The products are on the C.F. list.

Holiday Closing. — Thomas Morson & Son, Ltd., fine chemical manufacturers, 47 Grays Inn Road, London, W.C.1, announce that their works and warehouse will be closed for annual holidays from Friday evening, July 23 to Tuesday morning, August 3. During that period only urgent orders will be dealt with. No deliveries from suppliers will be accepted from July 24 to August 2, inclusive.

Canadian "Pharmaceutical Index."—Chartrand & St. Pierre, publishers, 445 St. François-Xavier Street, Montreal, 1, Canada, have issued the first edition of "Pharmaceutical Index," a volume of 395 11¾ x 9 in. pages containing the names and addresses of more than 1,200 suppliers; more than 65,000 entries of pharmaceutical products, with prices and space for alterations; a smaller perfume index; and a glossary of perfumery and cosmetic terms.

Travel-size Perfumes. — Supplies are now available of a new trial size of Heather and Great Expectations perfumes, manufactured by Goya, Ltd., 161 New Bond



Street, London, W.1, as illustrated, and of Studio and (limited quantities only) Gardenia and No. 5. The trial size contains enough perfume for two or three weeks' use, and the screw cap will not, like a glass stopper, shake loose from travel vibration.

T.E.P.P. and D.F.P. — Allen & Hanburys, Ltd., London, E.2, announce that they are able to supply tablets of tetraethyl-pyrophosphate for administration by mouth in doses of 1, 2 and 5 mgm. per tablet, and 1-mil ampoules of a solution in propylene glycol 5 mgm. per mil for intramuscular injection (boxes of twelve). They can also supply di-isopropyl-fluorophosphonate; it is available in ampoules containing 0.1 per

cent. in arachis oil for intramuscular injection and in 0.05 per cent. solution in arachis oil for ophthalmic use.

Modern Remedies.—The fourth series of "An Index of Modern Remedies," just published by "The Scottish Chemist," contains, by permission of the General Medical Council, references to new admissions to the British Pharmacopœia, 1948, with information on corresponding proprietary forms. A suggestion that the names of the original forms of some of the products now raised to pharmacopœial status might usefully appear alongside the names now official, is made by the compiler, Mr. William Mair, F.R.S.E., M.P.S.

Vitamin Publicity. — The public relations officer for the National Rose Hip Products Association has sent notification that two articles on National rose-hip syrup are to appear in "Woman's Own." The first, in the issue of July 23, will include an offer to send free 1-oz. samples of the syrup to members of the papers' "mother and child" service who send in 3½d. to cover postage. The Association suggests that chemists should consider special window displays to link up.

Metric Packs Adopted. — Johnson & Sons, Manufacturing Chemists, Ltd., Hendon Way, London, N.W.4, who last year adopted for their acid hypo tins of 250 and 500 gm. instead of the previous ½-lb. and 1-lb. tins, are now introducing metric containers for Azol developer. The 3-oz. is replaced by a 100-c.c. bottle; the 8-oz. by a 200-c.c.; 16-oz. by a 500-c.c.; and 80-oz. by a 2¼-litre bottle. For some a secondary reference on the label will give the imperial weights and measures also. Messrs. Johnson's propose eventually to market their entire range of photographic products in metric weights and measures, and under multilingual labels.

Cut-out Showcard.—Don S. Momand, Ltd., 57 Albany Street, London, N.W.1, are issuing, with all display parcels of Alka-Seltzer, a cut-out showcard as illustrated. The hand and tumbler fold into position in front of the card, which is in colours.

Price Reduction.—Glaxo Laboratories, Ltd., Greenford, announce reduced prices for Fersolate as from July 12. Included in the National (War) Formulary and in the Drug Tariff as tab. ferri sulph. Co., N.(W.)F., the preparation is exempt under that description, though, of course, taxable under its proprietary name Fersolate. To meet the situation the pack of 100 is retained as Fersolate, but at a reduced price to bear tax at 4½d. instead of 6d. as formerly. The tin of 1,000 Fersolate tablets is discontinued. In its place tab. ferri sulph. co., N.(W.)F. will be supplied in tins of 1,000 and 5,000 tablets, tax free. Supplies are available from wholesalers. Special quantity rates operate for tab. ferri sulph. co., N.(W.)F., and credit is being allowed for tins of 100 Fersolate tablets held at closing time on July 10; claim forms have already been sent.

Orders Again Accepted. — Medrano Products, 31 Sinclair Road, Kensington, London, W.14, are again accepting orders

for their Medrano oily remover, cuticle remover, vitamin F nail food, etc., which have been in short supply in recent years.

Amphetamine for Injection.—Menley & James, Ltd., 119 Coldharbour Lane, London, S.E.5, are issuing their specialities Benzedrine (amphetamine) and Dexedrine (dextro-amphetamine) in ampoules solutions for parenteral administration. The Benzedrine ampoules contain 20 mgm. of the sulphate in 1 c.c. sterile aqueous solution and the Dexedrine ampoules 10 mgm. of the sulphate in 1 c.c. (both in boxes of six). Benzedrine is given intravenously to terminate barbiturate anæsthesia and in barbiturate poisoning. In view of the rapid and marked action of both compounds by this route the makers urge a study of the contra-indications of the compounds. Emergency supplies are obtainable at all times from John Bell & Croyden, Wigmore Street, London, W.1.

SCOTTISH PHARMACISTS AND THE SOCIETY

Members of the North British Branch of the Pharmaceutical Society at their annual meeting on June 16 demanded a new title and status

THE annual meeting of the North British Branch of the Pharmaceutical Society was held in Edinburgh on June 16, Mr. C. G. Drummond in the chair.

New Title Proposed

THE CHAIRMAN said the prodigious amount of work devolving on the Pharmaceutical Standing Committee (Scotland) (Enlarged) in connection with the National Health Service has had its repercussions on the Executive, whose members were also members of that body. The enlarged committee has been representative of all sections and interests in pharmacy. On the proposed revision of the Society's constitution, the Executive had sent a detailed statement of views to the Council. On that part of the memorandum which dealt with the North British Branch, the Council had expressed substantial agreement. The more important proposals were:—(1) That the title of the North British Branch should be altered to "Pharmaceutical Society of Great Britain—Scottish Department." (2) That the method of election of the Executive in Scotland should be changed. There should be a committee of eighteen elected members, six of whom should retire annually and be eligible for re-election. The president and vice-president of the Society and any member of the Council resident in Scotland would be *ex-officio* members. (3) That branch organisation in Scotland should be a matter for the Scottish Department, subject to the oversight of the Council. The whole existence of the North British Branch had rested, perhaps somewhat insecurely, on a resolution of the Society's Council dating from 1886. It was now the Executive's intention to have that position made more secure, and steps were being taken to allow the new proposals to come into operation shortly. After fifty-seven years of service with the Society, continued the chairman, Dr. Tait was making his last official appearance at an annual meeting. He expressed to Dr. Tait gratitude of Scottish members of the Society for a lifetime of devoted service.

DR. TAIT said he was grateful for the chairman's inspiring words and the way in which the audience had received them. He spoke appreciatively of his staff.

On the motion of MR. WEIR, seconded by MR. A. OFFICER, the scrutineers' report was adopted. The chairman thanked the scrutineers, and announced the result of the poll for eighteen members of the Executive (see *C. & D.*, July 3, p. 2).

THE CHAIRMAN said that what was to follow might be called the Branch Representatives' meeting. The first topic was "Branch Organisation in Scotland," and he called on Mr. A. V. Macfarlane to speak.

Division of Branches

MR. MACFARLANE said the problem was to produce a scheme that would be of greatest benefit to the greatest number of pharmacists in Scotland. No matter how the area was divided into branches, some members would still be out of reach. Referring to a map showing existing branch areas, the speaker said that county boundaries had obviously been the basis of the division made in 1923. Such divisions were not suitable today. When the boundaries of the branches were finally decided the decisions should be made with full consideration of transport problems which played a big part in determining branch attendance. Distance, however, was not the only factor. In the Dundee Branch there were members from towns four, six, or fifteen miles away who did not attend meetings, yet members from towns eighteen, twenty-two, or thirty-five miles away attended regularly, so distance was not the only factor nor ease of transport. Mr. Macfarlane then exhibited a map showing Scotland divided into Executive Council areas, and said that as a basis for division of branches it was geographically, numerically and financially unsuitable. Under such a plan there would be twenty-five branches, some such as Glasgow City with as many as 550 members, or Edinburgh with 330, while others would have too few, e.g., Argyllshire with thirty-three and Kirkcudbrightshire and Wigtownshire combined with thirty-five. A branch with less than 200 members would be financially unsound. At the present the grant from headquarters is 2s. 6d. plus 6d. per member and student associate, which with a membership of 200 would yield an income of £30, not enough to run a branch efficiently and actively. Some members might suggest asking for an increased grant from headquarters, but unfortunately other branches had done so and their grant had

only recently been raised to 2s. 6d. plus 6d. An increase in the grant to 5s. per member for Scotland would mean only an extra £300 per year, and members south of the border would expect the increase also, entailing an extra expense from headquarters of £2,500 per year. Mr. Macfarlane then showed a third map showing the distribution of pharmacists in Scotland before inviting members to join the discussion.

Mr. T. Neilson, Perth, said the problem was acute in his area. The small branches could more easily raise money than the large branches: the functions of a branch in a small country town could become social events. It would not be easy to work out the new districts. He thought the Executive should first hear the observations of the Branches.

" A Thankless Job "

Mr. A. Officer, Glasgow, congratulated Mr. Macfarlane on his address. The difficulties illustrated by Mr. Macfarlane were greater in his branch than in any other because of its size. It was a thankless job circularising every member three times a year and getting a paltry attendance. For persons in outlying districts his branch held district meetings in places like Dumfries, Ayr, Greenock and Lanarkshire. Districts like the Clyde Basin, Ayrshire, Dumfries and Wigtown should form branches.

Mr. G. Hedderwick, Edinburgh, said his branch hoped to start meetings in Kirkcaldy, Galashiels and Stirling or Falkirk. There should be more co-operation between the branch committees and the divisional secretaries. Mr. R. Bell, Ayr, said he had been asked to support any motion suggesting the formation of a separate branch for Ayrshire.

Professor H. Dryerre, Edinburgh, said that in the *per capita* payment from the Society there should be a differentiation for Scotland where the areas were scattered; the Society could pay at least 5s. per head. Mr. A. A. Meldrum, Aberdeen, thought the membership subscription far too small. Pharmacy was trying to claim a proper place in the National Health Service, and members should put a proper value on themselves. They should not claim more than their English colleagues in the way of a *per capita* sum. It was better to have fifty active members in a limited area than fifty attending meetings in a larger area; the most active branches had a membership of thirty-five to fifty. Mr. A. R. Lowson, Dundee, said it would encourage branches in smaller areas if, instead of a *per capita* grant, there were basic grants with *per capita* grants to balance.

Mr. C. W. Macfarlane read a letter from Mr. Connan, Inverness, suggesting Tain or Golspie as a centre for all North of Inverness, with the exception of Dingwall, Strathpeffer, Beauly, Fortrose and Cromarty (Inverness area to cover the East —from Inverness to Lossiemouth and Kingussie in the south).

Mr. Robert Birrell then opened a discussion on the representation of Scotland on the Society's Council. He said there were roughly 25,000 pharmacists in Great Britain, 3,000 of whom were in Scotland. With the present method of election it was utterly impossible to guarantee that Scotland had a say in Council matters. Fortunately Scottish members had been able to maintain an average of one Scotsman on the Council but they had no guarantee: his election depended on votes from England and Wales. Pharmacy in Scotland differed from pharmacy in the South, and should have direct representation on the Council. The Branch Representatives' meeting in London had agreed that there should be a change of method.

Whitley Council

Mr. J. Baxter, Cambuslang, thought it should be mentioned that in the main pharmaceutical Whitley Council, Scotland had a direct representation of three. Those three members could veto any matter and have it referred back to the Scottish Council. Mr. Birrell said Mr. Linstead had stated that, under the present constitution the basis of the election of members of Council must be a national one; a territorial election would be contrary to the law and spirit of both the Charter and the Act of 1898. Professor Dryerre suggested the Council should be asked to obtain counsel's opinion as to whether an alteration could be affected by by-law without altering the Charter or obtaining another Act.

Mr. C. A. Buick, Port Glasgow, said it should be possible for the Council or the North British Executive to get the Charter altered in such a way that a change of method could be adopted. Scottish members were able to nominate their own examiners and to carry out their own National Health Service arrangements; he did not see why they should not elect members to the Executive in Scotland and do without the Council. The Chairman said the matters would be considered by the Executive.

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VOL. CL JULY 17, 1948 No. 3569

Dangers of Radioisotopes

REVIEWING the hazards involved in the handling of radioactive isotopes, Howarth ("Lancet," July 10, p. 51) states that, unless special precautions are taken, the benches, sinks and furniture of laboratories can become heavily contaminated with radioactive materials, which, if they have a long half-life, cause radiations that may reach dangerous levels. Isotope work is unsuited to the general laboratory.

Isotopes may emit the three following types of radiation:—

1. *Beta particles,* which are electrons of rest mass 9.107×10^{-28} gm. They are ejected at velocities approaching that of light and bear a positive (positron) or a negative charge. At the velocities usually encountered the particles are easily absorbed by the walls of a container, the experimenter's gown, or superficial layers of skin.

2. *Gamma radiations,* which have neither mass nor charge and are emitted from the isotope at the velocity of light. They have considerable powers of penetration, and 4 cm. of lead-tungsten alloy is required to absorb about 90 per cent. of an incident beam emanating from a radium source. Their capacity to damage tissues depends on the ionisation they cause within them. The energy absorbed from nuclear disintegration tends to be great, as each 1 mgm. of matter, for example, if completely disintegrated, would yield 25,000,000 kilowatt-hours of electrical energy.

3. *Alpha particles* which are of large mass, low velocity and great destructive power, are emitted by some isotopes but these are seldom used in biological studies. As yet information about the pathological effects of radioactive isotopes is lacking. Radioactive isotopes, however, can produce all the effects of an overdose of radium radiation or *x*-rays, which include skin and blood changes, genetic effects, sterility and late formation of tumours, etc. Skin effects include removal of hair, or even fibrosarcomas from certain rare radioactive substances. Skin tumours following beta burns from P^{32} have been noted. Effects from ingestion similar to those of radium have been shown by certain other radioactive substances such as Sr^{89}, which produces bone tumours, and Ce^{144}, which causes liver damage in addition. Of the commoner isotopes, P^{32} can produce deleterious effects.

The author concludes that isotope technique should not be used when ordinary chemical procedure will suffice, and that radiophosphorus should never be used in treating patients during the reproductive period of life or who have an expectation of life of five years or more. The advice of the isotope section of the Medical Research Council on problems within its field is readily available.

Improvements Made by a Tenant

A TENANT trader may wish to improve the appearance of his premises by, for example, putting in a new shop front. There are two ways of doing this, but one of them is to be avoided, especially if the tenant wants to be recouped later on some of his outlay.

Many leases contain a clause prohibiting a tenant from making any alterations to the premises without the landlord's consent. Most tenants go to the landlord for his consent, but that is just what should not be done if the alterations are of such a nature that they will increase the letting value of the premises at the end of the tenancy — in other words, if they are "improvements" as envisaged by the Landlord and Tenant Act, 1927. Instead, the tenant should adopt the procedure laid down by the Act, since only

by following the statutory procedure can the tenant put himself in a position to recover from his landlord compensation for the improvements at the end of his period of tenancy.

If, on the other hand, the work to be done has not the effect of increasing the rental value of the premises, the proper course is unquestionably to ask the landlord for his consent, under the covenant to that effect contained in the lease. The reason is that if, in such circumstances, the landlord refuses his consent unreasonably, then it is open to the tenant to obtain a ruling from the Court that the landlord's consent is being unreasonably withheld.

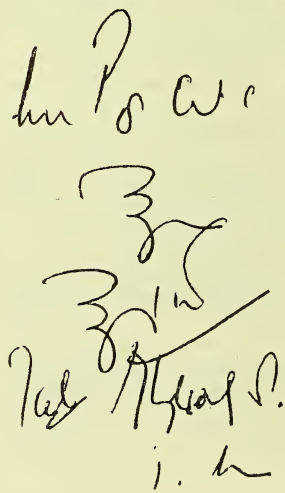
Assuming, however, that the work constitutes an "improvement" in the sense indicated above, then the procedure that must be followed by the tenant is as follows. The landlord must be served with a notice stating it is the tenant's intention to execute the improvements; the notice must be accompanied by all necessary plans and specifications. (Preparation of the plans and specifications is, of course, the builder's job). The landlord then has three months within which to make up his mind whether to give or to refuse his consent. If consent is refused, the tenant must start proceedings in the County Court and obtain an Order authorising him to execute the work despite the landlord's objection. After obtaining the landlord's consent or a Court Order, as the case may be, the tenant then duly executes the work and on completion obtains a certificate from the landlord—or, if he will not give one, from the court—to the effect that the work has been duly carried out.

The certificate is a very important document and must be carefully preserved against the day when the tenant makes his subsequent claim for compensation in respect of the improvements. To place himself in a position to establish a claim for compensation, however, the tenant must serve his landlord with the statutory notice of claim within the time limit laid down by the Act. Where the tenancy is one that automatically expires, the notice of claim must be served at least twelve months before the last day of the tenancy. When a tenant receives notice to quit, it must be served within one month of th notice to quit. The notice of claim mus state the amount claimed for improvements.

N.H.S. Pricing Points

Although the list has been made avail able of those surgical appliances that ma be supplied to patients under the Nationa Health Service Act, specifications for th appliances have not yet been issued. I is announced (see p. 70) that they wil be made known in the near future. I the meantime, when pharmacists receiv prescriptions for appliances on the lis they should supply from stock, noting o the prescription form the net cost of th items supplied. Payment will be allowe by the pricing authorities on that basi Another point of some importance affec the forwarding of prescriptions from bus nesses with more than one set of premise The modified invoice form issued by th Ministry of Health requests chemists t forward the prescriptions for each set c premises in a separate bundle, enclosin the invoice form, to the Clerk of th Executive Council with which the pro prietor is under contract for the principa set of premises. It should also be note that the amendments to the National (Wa Formulary recently announced (*C. & D* July 3, p. 13) take effect on August 1.

PRESCRIPTION PROBLEM



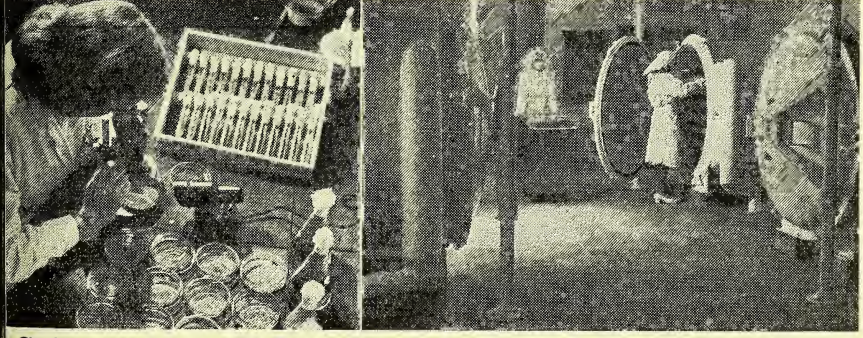
ROPRIETARY ARTICLES TRADE ASSOCIATION

a meeting of the Council of the Propriet- Articles Trade Association on July 8, PRESIDENT (Mr. N. E. Forster) reported : a statement had been submitted to the ale Price Maintenance Committee, sup- nenting oral evidence given on April 2. : progress of the Monopoly (Inquiry and ıtrol) Bill was reported, and a discussion ; place on the provisions of the Bill and scope of the proposed Monopoly and trictive Practices Commission. The ıncil endorsed the secretary's action in ing attention in the Press to certain mis- ements affecting the Association that been made during the debate on pur- se tax on medicines during the Commit- stage of the Finance Bill. It was an- nced that the Year Book and Protected for 1948-49, which was now being ıted, would show current tax-inclusive il prices. THE SECRETARY reported that Miscellaneous Goods (Maximum es) (Amendment) Order, as it affected .T.A. goods, appeared to be working othly; necessary adjustments in the es of some toilet preparations and re- ites had been made and approved by the Council. Two applications for membership of the wholesale section were refused. Donations amounting to £539 from manufacturer and retail supporters of the Association were acknowledged with thanks. The Council endorsed a suggestion that arrangements should be made to attract a larger attendance at the annual meeting.

A report on price-maintenance work during the past three months, submitted by the secretary, stated that representatives had visited Liverpool, Birkenhead, Wallasey, Southport, Oldham, Blackburn, Bolton, Burnley, Accrington, Nelson, Farnworth, Horbury, Sheffield, Bradford, Leeds, Wakefield, Manchester and Blackpool, where there had been no evidence of price cutting. The only complaints made by retail members had concerned certain co-operative societies, and were being investigated. In the course of 400 investigations and 450 test purchases made in the Metropolitan area, there had been evidence of price-cutting of P.A.T.A. goods in only three instances. Since the previous meeting of the Council forty traders had been removed from the stop list.

PENICILLIN IN SWEDEN

PENICILLIN factory owned by the bio- nical industry Kärnbolaget AB has ntly been completed in Stockholm, den. The capacity of the plant, which ne first penicillin factory in Sweden, is e enough to meet Sweden's total needs. 1947 consumption is estimated to have ı some 300,000 million international s, not including penicillin used for rinary purposes, and it is expected that demands will increase. Kärnbolaget AB is a branch of the brewery concern Stockholms Bryggerier AB, and has one of the largest industrial biochemical laboratories in the country. Construction of the new plant was started in 1946. The staff numbers thirty, mainly employed in laboratory work, control and packing. The process of penicillin manufacture as carried out at the factory is largely automatic.



Checking cultures of penicillin-producing fungi. Right: Charging a vacuum chamber with penicillin solution prior to evaporation at a temperature of —30° C.

B.P. CHANGES AT A GLANCE

(*Continued from* THE CHEMIST AND DRUGGIST, *July* 10, *p.* 51).

New monographs in **Black Type.** Retained monographs in CAPITALS. Omissions i [*Italics*] between square brackets. M.W.=Molecular weight (previous figure i parenthesis). Min.=Minims. gr.=grain. gm.=gram. M.P.=Melting point.

HYDRARGYRI SUBCHLORIDUM. — Storage (added): Mercurous chloride should be protected from light. Preparations: Tabellæ Hydrargyri Subchloridi added (*Injectio Hydrargyri Subchloridi* and *Lotio Hydrargyri Nigra* omitted). Doses by intramuscular injection, ½ to 1 gr., deleted.

HYDRARGYRUM.—Weight per mil at 20°, about 13.55, replaces "specific gravity (about 13.5 at 15.5°/15.5°)." Assay: "and sufficient solution of potassium permanganate to produce a permanent pink colour. Decolorise by the addition of a trace of ferrous sulphate" is inserted between "Add 150 mils of water" and ". . . . and titrate with N/10 ammonium thiocyanate." *Injectio Hydrargyri* deleted from "Preparations." Doses, omitted.

HYDRARGYRUM AMMONIATUM. — Factor, 0.01261 (0.0126).

HYDRARGYRUM CUM CRETA. — Formula modified by inclusion of dextrose: Mercury 33 gm.; Dextrose 1 gm.; Chalk 66 gm. Assay as modified by Addendum I. Preparation: Tabellæ Hydrargyri cum Creta (added).

HYDRARGYRUM OLEATUM. — "And mix thoroughly" replaces "stirring vigorously"; "yellowish" describes the unctuous preparation (instead of "greyish"); "An ingredient of Unguentum Hydrargyri" added to preparations.

HYOSCINÆ HYDROBROMIDUM. — Graphic formula added. M.W. 438.3 (438.1). Loss on drying (changed): When dried to constant weight at 100°, loses not less than 12.0%, and not more than 13.0% of its weight, the determination being made by placing the substance in an oven at about 20°, gradually raising the temperature during thirty minutes to 100° and drying to constant weight at 100°. Injectio Hyoscinæ Hydrobromidi added to "Preparations." Paragraph on "Sterilisation of a Solution," amended by Addendum IV, deleted (being incorporated in Injection of Hyoscine Hydrobromide).

HYOSCYAMUS.—Macroscopical and microscopical characters described in greater detail. "Diminishing on storage" appended to "Odour, strong and cha acteristic." Stem limit increased t 3.0% with width greater than 5 milli metres. Ash limit (20%) deleted. Assay As modified by Addendum I. Pilul Colocynthidis et Hyoscyami added t "Preparations." Doses, omitted.

Hyoscyami Pulvis. — Description: Gree or greyish. Diagnostic structures Epidermis with sinuous walls an smooth cuticle; stomata, more nume ous on the lower surface, of the *Cruc ferous* type; covering trichomes 2 to cells long, uniseriate, usually in fra ments; granular trichomes with un seriate stalk and large ovoid multicell lar head; mesophyll, with one row palisade cells and well-marked cryst layer; vessels, spiral and reticulate calcium oxalate, single or twin prism tic crystals about 5 to 20 microns long fragments of anther, showing thickene bands in the endothelium; pollen grair in chloral hydrate solution, subsphe cal, up to 60 microns in diameter, t colpate with three wide pores, exi with numerous fine irregularly arrang pits. Alkaloid content (0.05%) ar other requirements as under "Hyoscy mus."

ICHTHAMMOL. — Assay factor, 0.13 (0.1373). Doses, deleted.

[*Indicarminum,* modified by Addendum now omitted].

Infusa.—Dilutions (1 in 8) of concentrat preparations (which replace t "Fresh" infusions of the 1932 B. should be dispensed within twelve hou of preparation. Use of "suitable p able water" permitted by Addendu IV cancelled. The note appended each concentrated infusion that di tion with seven times its volume of d tilled water yields a preparati approximating in strength, but not flavour, to the "Fresh" infusion, n omitted.

Infusum Aurantii.—Concentrated Infusi of Orange Peel, 125 mils; Distill Water, sufficient to produce 1,000 m Mix. Doses, ½ to 1 fl. oz. To be d pensed within twelve hours.

NFUSUM AURANTII CONCENTRATUM.—Unchanged. Preparation: Infusum Aurantii.

[*nfusum Aurantii Recens.* Replaced by 1 in 8 dilution of Concentrated Infusion of Orange Peel].

[*nfusum Buchu Concentratum*].

[*nfusum Buchu Recens*].

nfusum Calumbæ. — Concentrated Infusion of Calumba, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Doses, ½ to 1 fl. oz. Dispense within twelve hours. Note states: When Infusum Calumbæ, or Infusion of Calumba, is prescribed, Fresh Infusion of Calumba may be dispensed.

NFUSUM CALUMBÆ CONCENTRATUM.—Unchanged except omission of note on 1 in 8 dilution.

NFUSUM CALUMBÆ RECENS.—Note on dispensing either fresh infusion or diluted concentrate, when infusion of calumba is prescribed, omitted (*see* Infusum Calumbæ).

nfusum Caryophylli. — Concentrated Infusion of Clove, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Doses, ½ to 1 fl. oz. Dispense within twelve hours.

NFUSUM CARYOPHYLLI CONCENTRATUM.—"Clove, freshly reduced to No. 10 powder" replaces "Clove, bruised," process otherwise unchanged. Preparation: Infusum Caryophylli. Note on 1 in 8 dilution omitted.

[*Infusum Caryophylli Recens.*—Replaced by Infusum Caryophylli].

[*Infusum Digitalis Recens*].

nfusum Gentianæ Compositum. — Concentrated Compound Infusion of Gentian, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Doses, ½ to 1 fl. oz. To be dispensed within twelve hours.

[NFUSUM GENTIANÆ COMPOSITUM CONCENTRATUM.—Formula and process, same. Note on 1 in 8 dilution omitted. Addendum IV permission to use "suitable potable water" for dilution, withdrawn. Preparation (added): Infusum Gentianæ Compositum.

[*Infusum Gentianæ Compositum Recens.*—Replaced by Infusion Gentianæ Compositum, i.e., "fresh" infusion no longer to be supplied when infusion of gentian prescribed].

Infusum Quassiæ.—Concentrated Infusion of Quassia, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Doses, ½ to 1 fl. oz. To be dispensed within twelve hours. When Infusum Quassiæ, or Infusion of Quassia, is prescribed, Fresh Infusion of Quassia may be dispensed.

INFUSUM QUASSIÆ CONCENTRATUM. — Note on dilution omitted, and Addendum IV permission to use "suitable potable water" therefor, withdrawn. Preparation (added): Infusum Quassiæ.

INFUSUM QUASSIÆ RECENS. — Addendum IV permission to use "suitable potable water" withdrawn, and notice omitted regarding dispensing either fresh or diluted preparation when infusion of quassia is prescribed. Permission for this given under "Infusum Quassiæ."

Infusum Senegæ.—Concentrated Infusion of Senega, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Doses, ½ to 1 fl. oz. To be dispensed within twelve hours.

INFUSUM SENEGÆ CONCENTRATUM. — Preparation Infusum Senegæ added, and dispensing note deleted. Permission by Addendum IV to dilute with "suitable potable water" withdrawn.

[*Infusum Senegæ Recens.* — Replaced by Infusum Senegæ].

Infusum Sennæ. — Concentrated Infusion of Senna, 125 mils; Distilled Water, sufficient to produce 1,000 mils. Mix. Preparation: Mistura Sennæ Composita. Doses, ½ to 2 fl. oz. For dispensing purposes to be used within twelve hours.

INFUSUM SENNÆ CONCENTRATUM. — Formula and process unchanged. Preparation (added): Infusum Sennæ. Doses, 30 to 120 min. (30 to 60 min.). Note on dilution omitted and Addendum IV permission to dilute with "suitable potable water" cancelled.

[*Infusum Sennæ Recens.* Replaced by Infusum Sennæ].

INJECTIO CALCII GLUCONATIS.—Addendum IV monograph modified as follows: "Water for Injection" (for "Distilled Water, freshly prepared"). Contains 10 per cent. w/v calcium gluconate (limits, 9.5 to 10.5), "the hot solution" inserted between "Distribute" and "in carefully washed ampoules." Identification and assay as under "Calcii Gluconas."

Sterility tests added. Note on rejection of solution containing crystals included under "Storage." Doses, 10 to 20 mils; 150 to 300 min. (same).

Injectio Carbacholi.—Solution of Carbachol in Water for Injection sterilised by heating in an autoclave or by filtration. To comply with sterility tests. Labelling: Name and strength; also on package, with name and percentage of any added bacteriostatic. Doses, 0.25 to 0.5 mgm.; 1/240 to 1/120 gr. Dispense: 0.25 gm. in 1 mil; or 1/240 in 15 min.

Injectio Deoxycortoni Acetatis. — Sterile solution of Deoxycortone Acetate in Ethyl Oleate or a suitable oil. Containers, sealed (finally or temporarily) to exclude bacteria, are heated at 150° for one hour, when amount therein does not exceed 30 mils, and for longer when volume exceeds 30 mils; sufficient to ensure the whole is kept at 150° for one hour. Complies with tests for sterility. Labelling: Name and strength; also on package, with name and percentage of any added bacteriostat. Doses, 2 to 10 mgm.; 1/30 to $\frac{1}{6}$ gr. Dispense: 5 mgm. in 1 mil; or 1/12 gr. in 15 min.

Injectio Dextrosi. — Solution of Dextrose in Water for Injection sterilised by heating in autoclave or by filtration. Complies with sterility tests. To be kept in a cool place. Labelling: Name and percentage w/v of dextrose; also on package. Dispense: 5.0 per cent. w/v.

Injectio Digoxini.—Prepared immediately before use by mixing Sterile Alcoholic Solution of Digoxin (50 mgm. of Digoxin in 100 mils of Alcohol (70 per cent.)) with nine times its volume of Injection of Sodium Chloride. Digoxin solution is distributed into ampoules and sterilised by heating in autoclave. Alkalinity and sterility tests apply. Label states: (1) Sterile Alcoholic Solution of Digoxin." Label or wrapper on package states: (1) Sterile Alcoholic Solution of Digoxin for the preparation of Injection of Digoxin; (2) One part by volume of this solution diluted with nine parts by volume of Injection of Sodium Chloride produces Injection of Digoxin which is used immediately after preparation; (3) This solution must be diluted before use. Doses, 10 to 20 mils; 150 to 300 min. Contains in 20 mils, 1 mgm., and in 300 min. about 1/60 gr. of digoxin.

Injectio Diodini. — Synonyms: Liquor Diodoni; Solution of Diodone. A sterile aqueous solution of the diethanolamine salt of 3:5-diiodo-4-pyridone-*N*-acetic acid. Injection of Diodone contains 17.3 to 17.7 per [illegible] of I, corresponding to 34.7 to 35.[illegible] per cent. w/v of diethanolamine salt. Sterilise by filtration before, or by autoclaving after, distribution into ampoules. Contact with metal should be avoided. Identification: A. by melting point of free acid, dried at 100°, 245° to 249°. B. by melting point of diethanolamine trinitrophenolate, 109° to 110°. Reaction, *p*H, 6.0 to 8.0. Weight per mil at 20°, 1.183 to 1.188. Arsenic limit, 1 part per million. Lead limit, 5 parts per million. Inorganic iodides: no coloration in chloroform layer after shaking 10 mils of filtrate from Identification test A with 1 mil chloroform and 2 drops ferric chloride solution. Residue on drying at 100°, 35.2 to 35.9%. Ash limit, 0.1%. Assay factor. Each mil N/20 sodium thiosulphate is equivalent to 0.001058 gm. I. To comply with sterility tests. Protect from light. Doses, by intravenous injection: Adult, 20 mils, or 300 min. Child, 8 to 10 mils, or 120 to 150 min. Infant, 2 to 3 mils, or 30 to 45 min.

Injectio Emetinæ Hydrochloridi.—Sterile solution of Emetine Hydrochloride in Water for Injection sterilised by heating with bactericide or by filtration. To comply with tests for alkalinity and Sterility. Labelling: Name and strength on container; also on package, with name and percentage of any added bactericide or bacteriostat. Doses, by subcutaneous or intramuscular injection, 30 to 60 mgm., $\frac{1}{2}$ to 1 gr. daily. Dispense: 60 mgm. in 1 mil, or 1 gr. in 15 min.

Injectio Ergometrinæ Maleatis. — Synonym: Ergonovine Maleate Injection. Sterile solution in Water for Injection containing 85.0 to 110.0 per cent. ergometrine maleate stated on label. After placing solution in ampoules, air is replaced by nitrogen. Ampoules are immediately sealed, and sterilised by heating in an autoclave. Identification and assay as under "Ergometrinæ Maleas." To comply with alkalinity and sterility tests. Protect from light. Labelling: Name and strength on container; also on package. Doses, by intramuscular injection, 0.25 to 5 mgm., 1/240 to 1/120 gr.; by intravenous injection, 0.125 to 0.25 mgm., 1/480 to 1/240 gr.

MINISTRY OF HEALTH BULLETIN

HE following abstracts are taken from the neteenth Bulletin to Pharmacists issued by e Ministry of Health.

Infantile Paralysis

HE author, Mr. A. H. Gale, D.M., D.P.H. ints out that infantile paralysis, or, more rrectly, poliomyelitis is a virus disease not ly of infants but of school children, young ults and sometimes of the middle aged; at infection is widespread and only a all proportion of those infected develop e paralytic disease, and that the early mptoms are indefinite. Even in epidemic nes, poliomyelitis is relatively uncom- on. No drugs have any effect on the urse of the disease but skilled and early eatment of paralysed muscles can do uch to mitigate its results. Measures of ntrol are difficult to apply and depend local circumstances. They are a matter r the medical officer of health who is gnisant of local circumstances.

Some Practical Considerations of Vitamins

By H. E. Magee, D.Sc. M.B.

ESTS designed to demonstrate the effects additions of certain vitamins to ordinary ets were carried out during the war. The tamins given were vitamin A, thiamine, acin, riboflavine, ascorbic acid and cal- ferol. They were given on five or six days eekly for six to twelve months in capsules, ch containing the daily adult requirement each vitamin. A total of about 4,000 hool children and 300 industrial workers ere included in the tests. The results owed that the extra vitamins had no scernible effects on health, incidence of ness, absenteeism, rate of growth, physical ficiency, endurance, or industrial output. was, therefore, reasonable to conclude at the national diet at that time (1941-44) ntained a sufficiency of these vitamins, at y rate for school children and industrial orkers. Since mothers and young children ceive special allowances of vitamin con- ntrates and foods rich in these vitamins, eir requirements should also have been fficiently well met. There is no reason to lieve that the vitamin content of the diet any poorer now than it was then. Never- eless, extra vitamins are often prescribed nd are consumed by many people with and ithout medical advice for complaints hich are real or imaginary or merely ared.

Super-functioning not Desirable

For the body to function properly a diet adequate in all nutrients, including those essentials at present undiscovered (and there are doubtless many) is required. A state of super-functioning is not physiological and therefore not desirable, except temporarily to meet special circumstances. Such a state can be elicited by stimulants, such as strychnine or amphetamine. At least one vitamin has been shown to have stimulating effects like these drugs, for when niacin is taken in doses above requirements it increases the efficiency of performance of tests involving speed, skill and endurance. The daily administration of niacin, or of any other vitamin that may in the future be shown to have similar actions, is no more to be commended than regular consumption of strychnine or amphetamine. If any or all of the vitamins were shown to have protective or immunity-producing effects against infections, there would be ample justification for the prophylactic consumption of vitamin concentrates; but none of the vitamins has been shown to have definite and consistent protective effect against any infection. Is there, then, any justification at all for giving vitamins in the absence of deficiency disease?

As placebos vitamin concentrates are probably of no more and no less value than any other, but to avoid any risk of untoward effects it would be better to administer combinations of vitamins in moderate doses rather than single vitamins in large doses.

"Parentcraft"

THE author, Dr. Leslie Housden, O.B.E., the Ministry of Health's first adviser in "parentcraft," points out that the subject of "parentcraft" falls into two parts, the study of children first as animals, then as personalities. The first part deals with the preservation of health. It does not describe diseases. The aim is to build up in the minds of potential parents an expectation of health in their children. "Parentcraft" supplies the reasons for the methods of child-care. Facts are not enough. If parents know the reasons why "dummies" or mackintosh knickers or night feeds are considered objectionable they can form their own views on whether or not to make use of them. Instructed parents are more discriminating in their use of the pharmacy—to the greater welfare of the children and the added interest of the pharmacist.

NEW BOOKS

Camera-tips for Beginners.—$5\frac{3}{4}$ in. x $4\frac{3}{4}$ in. Pp. 32. Ninepence. Fountain Press, 46 Chancery Lane, London, W.C.2. With a full- or half-page illustration on every right-hand page, the booklet, placed on the counter of the photographic department, should attract would-be photographers to find out how to proceed. Its hints, given in the simplest language, suffer from being in so small a type that only the most determined reader can get very far through the text.

Income Tax.—C. N. Beattie. Pp. 116. **Hire-purchase Law,** Maurice Share. Pp. 112. 4s. each. Stevens & Sons, Ltd., 119 Chancery Lane, London, W.C.2. The two paper-bound volumes are in the "This is the Law" series of nine published and seven "in-preparation" titles. All are addressed primarily to laymen and are intended to enable the reader to understand the principles of the subject dealt with, "and to know when legal (or accounting) assistance should be sought." The work on income tax contains sufficient examples showing the amount of tax in particular cases to enable the reader to apply the rules to his own.

Glass Tubing.—Richard E. Threlfall, M.A. $8\frac{1}{2}$in. x $5\frac{1}{2}$ in. Pp. 36. 2s. 9d. post free. British Association of Chemists, 175 Piccadilly, London, W.1. The text of a lecture on the manufacture of glass rods and tubing given before the British Association of Chemists appears to have been given verbatim, with all the colloquial and discursive style of the lecturer. Two tables are added, one giving the coefficients of expansion and upper annealing temperatures of a variety of commercial glass rods, the other the approximate number of feet to the pound of tubing and rod in various sizes and wall thicknesses. There are four pages of illustrations drawn by Mr. C. D. Lovell.

Elements of Workshop Training.—Edgar J. Larkin, A.M.I.Mech.E. $7\frac{1}{4}$ in. x $4\frac{3}{4}$ in. Pp. 261. 15s. Sir Isaac Pitman & Sons, Ltd. Now in its second edition, this textbook is intended primarily for works apprentices but contains much to interest the pharmacist working in a manufacturing laboratory or a student taking pharmaceutical engineering. Part I deals with the application of science to the workshop under such headings as mathematics, mechanics, measurements and effects of heat, metallurgy, electricity and chemistry. Part II deals with machine drawing, tes ing of materials, measuring tools, joiner and pattern-making, riveting and weldin moulding and casting, etc. There ar numerous illustrations, diagrams an tables.

Practical Pharmacognosy.—T. E. Wa lis, D.Sc., F.R.I.C., Ph.C. $8\frac{3}{4}$ in. x $5\frac{3}{4}$ i Pp. 230. Fifth edition. 15s. J. & A Churchill, Ltd., Gloucester Place, Londo W.1. The new edition of a work on pharm cognosy by such a well-known authority Dr. Wallis needs little in the way of recon mendation. Of the five parts into whic the book is divided, the first is concern principally with the morphological chara teristics of animal and vegetable drugs, an like a later section of the book (Part II dealing with the histological features), arranged as a series of schedules for th convenience of students, with skeleton pla for drug descriptions, and methods f studying habitats. Analysts and more a vanced students will find the latter parts the book, dealing with quantitative dete minations of purity, and of constituents drugs, most helpful. A guide to the exam nation of powdered materials, given in th book, will prove useful.

Elixirs of Life.—C. F. Leyel. $8\frac{3}{4}$ in. $5\frac{1}{2}$ in. Pp. 221. Faber & Faber, Ltd., Russell Square, London, W.C.1. Third in series of Culpeper House (Society of Herb lists, Ltd.) publications by Mrs. C. F. Ley the book covers a wide range of herbs th have been used from early times to susta and to lengthen life. The author shows considerable knowledge of the folklore primitive peoples throughout the world ar their materia medica. Common materia of vegetable origin such as agar, almon fenugreek, calumba, chamomile, genti and quassia, to mention only a few, a augmented by less familiar ones rangi from the garden flower Canterbury b (*Campanula edulis*), the root of which said to be edible, to exotic species such the papaw (*Carica papaya*), the source papain. The author's choice of botanic name for some of the plants may not acceptable to all botanists, while pharm cologists will rate others not very high the therapeutic scale, but the book is w written, provides much interesting inform tion (including indexes of plant names foreign languages), and is illustrated wi a number of excellent line drawings by M. Eldridge.

TEN-YEAR CELEBRATION

E directors and staff of Optrex, Ltd., mbering nearly 200, celebrated on July he tenth anniversary of the opening of company's Perivale, Middlesex, factory. e celebration took the form of an outing Herne Bay. At luncheon, MR. H. M. WARD (managing director) gave an dress to the guests, among whom were eral local pharmacists. He said that e of the reasons for the choice of Peri- le as a situation for the new factory had en that its atmosphere was free from st. Difficulties experienced in the im- diate post-war years had included rtages of witch hazel, purchased from dollar area, and, rather than use a bstitute, the directors had decided to cut tput of Optrex lotion. The position, wever, was now improving. During the r the factory had supplied large quan- ies of dressings of the tulle gras type and d undertaken the processing and bot- ng of orange juice for the Ministry of od. Recent developments which the com- ny was undertaking included a new pe of surgical dressing with styptic operties prepared from certain kinds of aweed. The new product, under the me of Calgitex alginate dressings, was ortly to be introduced to the medical ofession.

ctory Discussion Group

The speaker paid tribute to members of e staff who had been with the company roughout the period and gave examples the efforts that had been made to bring out a harmonious working spirit in the ctory. A discussion group provided an portunity for management and oper- ives to thrash out problems. "We are riving," said Mr. Seward, "to introduce dustrial democracy."

Mr. E. Alston Mott (a director) also oke.

Optrex excursionists at lunch.

MISCELLANEOUS INQUIRIES

Imitation Beer.—*R. W.*—A solution of liquid extract of liquorice in water has been used to make a preparation resembling beer for conjuring and similar purposes. The extract, in addition to giving a suitable colour to the water, produces a froth when the solution is shaken. Alternatively, solution of burnt sugar may be used for colouring purposes and a surface-tension-reducing agent such as a saponin or a salt of a sulphated fatty alcohol added to produce froth.

Antiperspirant Cream.—*R. D. & Co.*—A vanishing-cream type of antiperspirant cream may be made to the following formula:—

a.	Acid-stable glyceryl monostearate...	170 gm.
b.	Spermaceti	90 gm.
c.	Glycerin	39 gm.
d.	Distilled water	370 gm.
e.	Nipagin M	1 gm.
f.	Aluminium sulphate...	150 gm.
g.	Distilled water	150 gm.
h.	Titanium dioxide	20 gm.
i.	Phenoxetol	10 gm.

Dissolve (f) in (g) and then add (i) and stir in (h). Heat (c), (d) and (e) in the mixing container to 90° C. Heat (a) and (b) also to 90° C. and add the mixture to the water phase with fairly vigorous agitation. Stir until the emulsion is well formed and almost cool, then add gradually the mixture of (f), (g) and (h). Titanium dioxide serves as a filler.

Preparation of Luminous Paint.—*F. K.*—Luminous paint is generally made from zinc sulphide with either radium or mesothorium as the radioactive substance. A solution of zinc chloride is prepared from the metal or oxide, purified and precipitated as sulphide, which is then dried and ground. To the dried sulphide is added the desired impurity, usually copper (1 in 10,000 to 50,000) in dilute sulphate solution. The sulphide is again dried, ground and heated to 1,300°-1,400° C. (the delicate part of the process). One method of adding the radium or mesothorium is to mix the sulphide with water and alcohol, add the radium salt dissolved in water, and then precipitate it as sulphate in contact with the sulphide by adding gradually a slight excess of potassium or ammonium sulphate. The mixture is dried at room temperature in a vacuum over sulphuric acid. To apply the luminous powder it is made into a thick paste with a suitable transparent varnish. Mastic or copal varnish could be used or a varnish based on cellulose nitrate. Maximum luminosity is attained in ten or twenty days. The proportion of radium element in the paint can be varied according to requirements from, say, 0.2 mgm. per gm. to 0.01 mgm. per gm. Another preparation, Balmain's phosphorescent substance, is made from impure calcium monosulphide obtained by heating to cherry redness for twenty minutes a mixture of finely powdered calcined oyster shells, 20 gm., sulphur, 6 gm., starch, 2 gm., solution containing basic bismuth nitrate, 0.55 gm., and 8 c.c. absolute alcohol acidified with a few drops of hydrochloric acid, 100 c.c. The mixture is exposed to the air until the alcohol is evaporated. After calcination, the upper layer, consisting of calcium sulphate, is removed, and the remainder of the mass powdered and again heated for fifteen minutes.

STOCK EXCHANGE PRICES

Quotations are the average for the day stated. New securities are shown in italics.

£1 unit unless otherwise stated	May 28 1948	June 30 1948
	s. d.	s. d.
Albright & Wilson, ord., 5s. ...	31 3	29 3
Allen & Hanburys, prefd. ord. 7% cum.	31 3	31 3
Amber Chemical, ord., 2s. ...	10 6	9 6
Amber Chemical, 5% cum. pref.	25 0	25 0
Ascotts Pharmacies, ord. stock, 5s.	10 7½	10 7½
Aspro, ord. stock, 5s.	43 0	37 6
Beecham Group, defd., 2s. 6d. ...	21 3	18 0
Beecham Maclean Holdings 4% red. cum. pref.	21 3	21 3
Boake, Roberts, ord., 5s. ...	32 6	30 7½
Boots (Eastern) "A" pfd. 6% cum.	31 0	31 0
Boots (Northern) "A" pfd. 6% cum.	31 6	31 0
Boots (Western) "A" prfd. ord. (7% non-cum.)	37 3	37 3
Boots Pure Drug, ord., 5s. ...	53 0	49 0
Borax Consold., defd. ord. stock	62 6	56 3
British Alkaloids, ord., 1s. ...	12 0	10 3¾
British Chemicals & Biologicals, 4% cum. red. pref.	22 0	22 0
British Drug Houses, ord., 5s. ...	10 0	8 0
British Emulsifiers, 2s.	1 6	1 0
British Glues & Chemic., ord., 4s.	22 0	19 0
British Industrial Plastics, ord., 2s.	8 0	6 6
British Optical & Prec. Eng., 5%	98%	98%
British Oxygen Co., ord. stock ...	100 0	100 0
British Xylonite Co., ord. stock ...	120 0	105 0
Burt, Boulton & Haywood, ord.	27 6	26 3
Bush (W. J.), & Co., ord. ...	85 0	85 0
Camwal, ord.	21 3	21 3
Cooper, McD. & Robertson, ord.	40 7½	39 4½
Cow, (P.B.) & Co., ord. stock, 4s.	20 6	19 3
Cow & Gate, ord. stock, 1s. ...	3 6	2 10½
Crosfield, J., & Sons, 5% cum. pre-pref.	26 3	26 3
Cussons Sons & Co., ord. stock, 2s.	23 6	22 0
Distillers, ord. stock, 4s. ...	28 3	26 3
Dubarry Perfumery Co., ord., 1s.	4 10½	4 6
Dunlop Rubber Co., ord. stock ...	74 0	70 3
Energen Foods Co., ord., 2s. ...	7 9	8 0
Eno Proprietaries, 5½% cum. pref.	26 3	25 6¾
Eucryl, stock, 2s.	6 3	6 3
Evans Medical Supplies, ord. stock	43 1½	38 9
Field, J. C. & J., ord., 10s. ...	30 0	28 9
Fisons, ord. stock	60 0	57 6
Fisons, 4½% cum. pref.	24 6	24 6
Galloway, P. H., ord., 2s. ...	5 6	5 3
Gillette Safety Razor Co. shares (no par value)	$64.50	$54.50
Glaxo Laboratories, ord. stock, 10s.	350 0	310 0
Glaxo Laboratories, 8% cum. prefd. ord. stock, 10s.	20 3¾	20 3¾
Gossage, W., & Sons, 5% 1st cum. pref.	26 3	26 3
Greeff-Chemicals Holdgs., ord. 5s.	15 9	15 0
Griffiths Hughes Proprietaries, ord.	34 4½	29 4½
Guiterman, S., ord. stock, 2s. ...	4 6	3 0
Hampshire, F. W., stock, 5s. ...	85 0	85 0
Horlicks, stock, 5s.	33 1½	32 6
Hovenden, R., & Sons, 7% cum. "A" pref.	26 3	26 3

£1 unit unless otherwise stated	May 28 1948	June 30 1948
	s. d.	s. d.
Idris, "A" ord.	38 9	38 9
Ilford, ord. stock, 5s.	28 1½	25 0
Imperial Chemical Industries, ord.	48 9	46 9
Imperial Chemical Industries, 7% cum. pref. stock	38 1½	37 6
International Sponge Importers, ord. stock, 5s.	6 9	6 9
Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d.	17 6	17 6
Kershaw, A., & Sons, ord., 1s. ...	2 1½	2
Kleeman, O. & M., ord. stock, 1s.	27 6	22 6
Laporte Chemicals, ord. stock ...	20 7½	20
Lever Brothers & Unilever, ord.	51 3	50
Lewis & Burrows, ord. stock ...	30 0	30
Lewis & Peat, ord., 1s.	2 7½	2
Liebig's Extract of Meat, ord., £5	300 0	310
Macleans, 4% red. cum. pref. ...	20 0	20
Mellin's Food, 6% cum. pref ...	10 0	9
Milton Antiseptic, ord., 10s. ...	25 0	25
Mono Containers, 5s.	17 6	16 1
Monsanto Chemicals, ord., 5s. ...	60 7½	58
Pears, A. & F., 5% deb. stock, irred.	135%	130%
Potter & Clarke, ord. 1s. ...	5 3	4
Reckitt & Sons, ord. stock	109 9	105
Rolls Razor, prefd. ord., 10s. ...	26 3	25
Sangers, ord. stock, 5s.	35 6	32
"Sanitas" Trust, ord., 10s. ...	25 0	25
Savory & Moore, 5½% 1st red. cum. pref. stock	24 0¾	24
Sherley, A. F. & Co., 8% cum. prefd. ord.	25 7½	25
Smith & Nephew Associated Cos., ord., 4s.	18 6	16
South African Druggists, ord. 5s.	26 10½	22
Southalls (Birmingham), stock, 5s.	41 3	40
Sternol, 8% cum. ptpg. prefd. ord., 10s.	15 0	15
Stevenson & Howell, ord. stock, 5s.	27 0	26
Taylors, Cash Chemists, London, 6% cum. pref.	28 1½	28
Taylors, Cash Chemists, Trust, 6% cum. pref.	28 1½	28
Taylor's Drug Co., 7% "A" cum. pref.	32 6	32
United Glass Bottle, ord. stock ...	73 9	71
Veno Drug Co., 12% cum. prefd. ord.	42 6	41 1
Virol, ord.	75 0	75
Viscose Development Co., ord. stock, 5s.	11 3	10
Vitamins, 1s.	5 0	5
Wesley, Harold, 5s.	15 0	15
Whites (Timothy) & Taylors, ord., 5s.	40 0	36
Whites (Timothy) & Taylors, 7½% cum. pref.	37 6	37
Wright, Layman & Umney, 7% cum. pref.	31 3	31
Yardley & Co., ord., 4s.	62 6	58
Yardley & Co., "A" ord., 4s. ...	62 6	58

BRITISH HERB CROP REPORT

(*Concluded from* THE CHEMIST AND DRUGGIST, *July* 10, *p.* 63).

Potter & Clarke, Ltd. — The present year has, on the whole, been favourable to the production of medicinal and culinary herbs, although a warm, dry spell with plenty of sunshine is becoming increasingly necessary, especially for the aromatic plants. Cultivation has become increasingly difficult owing to shortage of seed, labour difficulties and greater overhead costs. The return of many foreign botanicals produces competition in prices, but generally the British material is better and greater care is given to cleaning and drying. ABSINTHIUM (Wormwood).—A fair crop is expected. ALTHÆA (Marshmallow).—A good crop of leaves taken. A small quantity of root will also be dug later. BELLADONNA.—Herb and root should do well this year but sunshine is wanted if the alkaloidal content is to be adequate. Root will not be dug until the autumn. BITTERSWEET (*S. dulcamara*).—A fair crop is expected. BRYONY ROOT (Black and white).—Fair supplies are available but it may be difficult to arrange collection in economic quantities. BLADDERWRACK. — Adequate supplies of good quality have been harvested on the west coast of Eire. BUCKTHORN BERRIES.—Limited supplies only are anticipated. CHAMOMILE.—Very limited supplies expected; dependent on a dry spell for harvesting. The main supplies must still come from Belgium. CHERRY LAUREL.—Good supplies of leaves will be available though many bushes were damaged by frost. COLCHICUM.—Limited supplies of corm are now being dried, but seed will be very scarce. COLTSFOOT.—A very small yield of flower was obtained this year, but leaf seems to be good though rather late and small. COMFREY.—Came into flower early this year but good supplies of leaf and root are expected. CONIUM (Hemlock).—Fair supplies of herb have been cut for Green Extract, but seed may be scarce. CORIANDER. — Good supplies expected. COUCHGRASS.—Fair supplies of material have been collected. DIGITALIS.—Fair supplies of *purpurea* leaves have been collected and seed should be available in average supply. Last year's high glycoside content is not likely to be repeated. FENNEL.—A small acreage is doing well. GARLIC.—Very little now being cultivated as imported material is usually cheaper and better. HEMLOCK SPRUCE.—The collection of small lots of bark is being made. HOREHOUND.—A good crop is expected of both white and black. LUPULUS (Hops).—Crops look fair but require sun. The brewing trade has first claim on the crop but sufficient is usually available for pharmaceutical purposes. MALEFERN.—There is plenty of English root available but it seldom has the filicin content found in imported material. Small lots will be dug in October. PEPPERMINT. — Looks well and should be available in about the same quantity as last year, though warmer weather is becoming urgent. PILEWORT (*Ficaria*).—A very short crop was collected this year. RED POPPY PETALS.—Limited supplies only are expected. ELDER.—New stocks of concentrated and triple water have been prepared but dried flowers are available in somewhat limited quantities. There are adequate supplies of leaf of good colour. BROOM.—Good supplies are available although the bushes have not fully recovered from recent severe winters. SKULLCAP.—A small crop looks well but too much rain may easily spoil it. SPEARMINT.—A good crop is expected but acreage is still restricted since it cannot compete with imported material. SPHAGNUM MOSS.—A good supply has been located in the south. DANDELION ROOT.—Will not be dug for some months yet; at present roots look smaller than usual for this time of the year. WHITE PINE.—We have located small plantations of Weymouth Pine and shall experiment with the bark later.

CANADA'S PHARMACEUTICAL INDUSTRY

PRODUCTION of drugs and pharmaceutical goods in Canada was valued at $68,700,000 in 1947, representing an increase of 2.5 per cent. over the 1946 figure. Imports in 1947 were valued at $11,653,000, and exports of this class of goods totalled $4,400,000. Full details of 1947 production are not yet available but in 1946 the proportions of various types of product were: Specialities with ingredients declared, 30.5 per cent. of the total; standard pharmacopœial preparations, 20 per cent.; patent medicines, 18 per cent.; vitamin preparations, 15 per cent.; penicillin, 11 per cent.; biologicals, 4 per cent.; veterinary medicines, 1.5 per cent. In 1946 there were 209 plants employing 7,600 workers. The 104 factories in Ontario accounted for 51 per cent. of the total production, while eighty-seven in Quebec accounted for 43 per cent.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quant ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, July 14

THE principal feature of the PHARMACEUTICAL CHEMICALS market during the past week has been a reduction of £12 per ton in the price of TARTARIC ACID. The rate for 1-cwt. lots is now 218s. per cwt. and for 10-cwt. and over, 212s. One maker has advised a decrease in the price of ROCHELLE SALT in crystals by 2s. 6d. per cwt., making the new price for 1 cwt. 165s.; the powder and granular salt are unchanged. QUINIDINE SULPHATE prices are higher; 1,000-oz. is now quoted at 6s. per oz.; 100-oz. at 7s., and smalls at 8s. Home-trade business has been on a fair scale, and supplies generally are reasonably free.

Conditions in all sections of the Crude Drugs have not changed and the long-awaited improvement in business has not yet materialised. Home-trade buyers have shown little interest and export business is held up by the inability of prospective buyers to provide the necessary currency. Among those products which are easier are STAR ANISE, AGAR, Cape ALOES and RHUBARB. Little interest is shown in BUCHU and reports state that new-crop leaves are of poor quality. Recent cables from Portugal state that the rye crop has been greatly damaged by recent storms and that higher prices are expected for ERGOT. There has been some activity in the spot market for this article and much of the wormy material has been cleared. CARDAMOMS is a firmer market. Indian SEEDS are firm. TRAGACANTH is an easy market with business confined to the lower grades. Prices of WAXES are unchanged on the week.

Business in ESSENTIAL OILS has been slow. English distillers of CLOVE OIL have marked down prices by 6d. per lb. Reports from France indicate that new-crop LAVENDER should be cheaper; very little demand is noted for this oil. Jamaican BITTER ORANGE for shipment is quoted at 15s. 6d. per lb., c.i.f.

U.S. Drug and Chemical Report

New York, July 9

THE FINE CHEMICALS market lacked feature over the past week and the general picture is considered as one of "stability." Small price movements, however, were reported in ACETONE, HYPOPHOSPHITES and ARGOLS. CALCIUM and POTASSIUM HYPOPHOSPHITES were advanced 5 cents per lb. to 63 cents and 78 cents per lb. in drums, respectively. A highly competitive situation prevails in the PENICILLIN market though no actual price adjustments have yet been announced. Some leading producers of STREPTOMYCIN have sharply cut their selling prices and others are expected to follow in the very near future.

Domestic collections of BOTANICA DRUGS so far this season have been only half the rate of the record 1944 level Prices have shown an average 25 per cen increase over the levels of four years ag but it is reported that supplies will th year fall far short of requirements ar that a complete reversal in the recei downward price tendency will be effecte However, this week, another long list reductions was announced, includi BELLADONNA LEAVES, CUBEB BERRIES ar DANDELION ROOT; on the other han GINGER, CARDAMOM and BLACK PEPPE prices were advanced.

While price reduction announcemen were fewer on the ESSENTIAL OILS mark last week, buyers have continued to ope ate on a hand-to-mouth basis.

Pharmaceutical Chemicals

AMIDOPYRINE.—Supplies are limited; ir porters are asking 50s. to 60s. per lb.

ATROPINE.—Makers' prices continue the recently reduced rates. Rates per c are: ALKALOID, 41s. 3d.; 4-oz., 40s. 9d 25-oz., 40s. 3d. SULPHATE, 32s. 9d.; 4-o 32s. 3d.; 25-oz., 31s. 9d.

BORAX.—Makers' current prices are B.P. quality, granulated, £38 per ton crystal, £39; powder, £39 10s. Commerci grades, £8 per ton less. Packed in 1-cw bags, delivered carriage paid in Great Bri ain in 1-ton lots and upwards. Term quoted do not apply to Northern Irelan

BUTYL CHLORAL HYDRATE. — Curre prices are from 17s. 6d. per lb. upward In fair supply.

CAFFEINE.—Makers' quotations (per lb are: ALKALOID, anhydrous, from 39s. 6 to 43s. 6d., and B.P. from 37s. 6d. 41s. 6d., according to quantity; CITRAT from 22s. 6d. to 26s. 6d.; SODIU BENZOATE, from 23s. to 27s. 6d.; SODIU IODIDE, from 27s. to 31s.; SODIUM SAL CYLATE, from 23s. 9d. to 27s. 9d.

CODEINE.—Prices are unchanged. Cu rent rates per oz., in the home market, ar ALKALOID, ½ oz., 51s. 9d.; 1 oz., 49s. 3d 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9 HYDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 o 41s. 6d. PHOSPHATE, ½ oz., 40s. 9d.; 1 o 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 o 35s. 9d. HYDROBROMIDE and IODIDE ALKALOID; SULPHATE as HYDROCHLORID

HYPOPHOSPHITES.—Makers' rates per l for 7-lb. lots are: AMMONIUM, 9s. 3d BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRO 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANES 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7 HYPOPHOSPHORUS ACID in quantities of Winchester quarts is 6s. 2d. per lb.

ICTHAMMOL, B.P.—Supplies in drums are oted from 3s. 6d. to 3s. 8d. and upwards; 28-lb. tins, 3s. 9d. to 3s. 10d.; in 1-lb. s, 4s. 6d. to 5s. per lb., as to seller.

ISOPROPYL ALCOHOL. — Makers quote s. 3d. per gall. for small lots.

LACTATES.—Supplies are plentiful. Curnt quotations are as follows: CALCIUM, . 2½d. to 2s. 10½d.; CALCIUM SODIUM, . 3½d. to 3s. 11d.; ACID, 3s. 1½d. to . 10d. per lb.

LACTOSE.—Quotations are from £120 per n upwards, according to quantity.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' ice for 1-cwt. lots is 2s. 11d. per lb.

MERCURY SALTS.—Makers' rates per lb. r 1-cwt. lots are: AMMONIUM CHLORIDE, P., lump, 7s. 8d., powder, 7s. 10d.; ELLOW OXIDE, B.P. and RED OXIDE, P.C., 8s. 4d. BICHLORIDE, B.P., lump, , powder, 6s. 5d.; MERCUROUS CHLORIDE, P., 7s. 10d. Quotations for small quanies of MERCURY WITH CHALK, B.P., are 4s. 9d. for MERCURIC CYANIDE, 18s. 9d., d for OLEATE, B.P., 5s. per lb.

MORPHINE.—Prices per oz. current in the me market are: ALKALOID, ½ oz., 55s. 3d.; oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., s 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; BIECONATE and TARTRATE, as ALKALOID; CETATE, HYDROBROMIDE and SULPHATE, as YDROCHLORIDE.

RESORCIN.—Continues in short supply. urrent prices are at from 10s. 6d. to s. 6d. per lb., according to quantity.

ROCHELLE SALT.—Current rates per cwt. r powder are: 1 cwt., 162s. 6d.; 5 cwt., 0s. SEIDLITZ POWDER, ordinary strength quoted at 126s. 3d.; extra strong, 136s.; d double strength, 141s. 9d. per cwt.

TARTARIC ACID, B.P.—British makers lvise lower prices (per cwt.) as follows: cwt. lots, 218s.; 2-4 cwt., 216s.; 5-9 cwt., 14s.; 10-cwt. and over, 212s., delivered.

TERPINEOL.—Prices for B.P. grade are om 3s. 9d. to 4s. per lb.

VALERIANATES.—Current quotations for uantities of 1 cwt. and over: IRON, ODIUM and ZINC, 42s. 6d. per lb.; AMYL OVALERATE, 37s. 6d.; ETHYL ISOVALERATE, s. 9d.; METHYL ISOVALERATE, 44s. 3d. ENTHYL is quoted at 95s. 6d. per lb.

ZINC SALTS.—Prices per lb. are as follws: ACETATE, B.P.C., 3s. 9d. to 4s. 1d.; ARBONATE, B.P.C., from 2s. to 2s. 6d.; HLORIDE, B.P. (white), fused, 3s. 4d. to s. 8d., stick, 4s. 4d. to 4s. 8d.; IODIDE, .P.C., 18s. 9d.; OXIDE, B.P., 11d. to s. 2½d., prepared from carbonate, 5s. 6d. 6s.; PERMANGANATE, B.P.C., 9s.; SULHATE, B.P., 44s. 6d. per cwt.; powdered, 1s. 6d. to 65s. 6d. per cwt.; exsiccated, d. to 1s. 1½d. per lb. The above price nges are according to quantity.

Crude Drugs

AGAR.—Strip, on spot, is quoted at 17s. 6d. to 18s. 6d. per lb., duty paid, as to grade; forward, 15s. to 16s., c.i.f.

ALOES.—Cape available at 130s. per cwt.; forward, 132s. 6d., c.i.f. Curaçao in boxes is quoted at 210s. per cwt.; shipment, 200s., c.i.f. Socotrine is offered at 160s. to 180s. per cwt., spot.

ANTIMONY.—99.6 per cent., regulus, £190 per ton, delivered; 99 per cent., £180; 70 per cent. crude, £150.

ARECA NUTS.—Ceylon is quoted at from 65s. to 67s. 6d. per cwt., spot; to arrive, 50s., landed.

ASAFETIDA.—Persian block is offered at £22 10s. to £24 per cwt., spot, with lower quality (Indian) at £15.

BENZOIN.—Sumatra block, spot, from £15 to £17 per cwt., as to quality.

BUCHU.—New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

CAMPHOR.—Chinese tablets offered at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade 7s. 6d.: crude powder, 6s. 6d.

CANTHARIDES. — Spot quotations for Chinese are from 9s. 6d. to 10s. per lb., duty paid.

CARDAMOMS.—Mangalore half-bleached A's are 9s., spot: B's, 8s., seeds, 7s. 9d. Aleppy seeds, 8s. 6d. to 9s. per lb. Aleppy greens, 7s. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—Spot quotations are from 200s. to 240s. per cwt.; new-crop forward is valued at 200s., duty paid.

CASCARILLA.—Business of small account. Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d.

CASSIA PODS (*C. fistula*).—East Indian, 65s. per cwt., ex wharf.

CHILLIES.—Mombasa, 115s. per cwt., spot; shipment, June-July, 95s., c.i.f.: Sierra Leone, 115s., nominal; Nigeria, 90s., spot.

CINNAMON.—Ceylon on spot is offering as follows: 0000, 3s.; 000, 2s. 10d.; 00, 2s. 8d.; 0, 2s. 6d.; firsts, 2s.; seconds, 1s. 11d.; thirds, 1s. 10d.; fourths, 1s. 9d.; quillings, 1s. 5d., featherings, 1s.; chips, 6d. per lb.

CLOVES.—Zanzibar on spot is quoted at 9d. per lb.; shipment is nominal at 11d., c.i.f. Madagascar, shipment, 7½d., c.i.f.

COLCHICUM—Corms, spot, offered at 7s. 6d. to 8s. 6d. per lb.

DERRIS ROOT.—Controlled price of the root and "other rotenone materials" is 2s. 4d. per lb., ex warehouse.

DIGITALIS.—Portuguese leaves offered at 150s. per cwt., spot; English, from 2s. 6d. per lb.

DRAGONS BLOOD.—Singapore reboiled No. 1, £70 per cwt., spot; No. 2, £35.

ELEMI.—Manila No. 1, 2s. 3d. per lb., spot.

ERGOT.—Portuguese is offering at 4s. per lb., spot; new-crop, shipment, 3s. 10d. to 4s., c.i.f.

GAMBOGE.—Siam pipe, spot, steady at £50 per cwt., duty paid.

GENTIAN.—Quiet. French natural is quoted at 62s. 6d. to 65s. per cwt., spot.

GINGER.—Steady. African, spot, 75s. per cwt.; new-crop, July-August, 70s., c.i.f. Jamaican, No. 1, 115s.; No. 2, 112s. 6d. and No. 3, 110s. per cwt.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts, dearer at 66s. per cwt., ex store, London; shipment, 61s., c.i.f. Bleached No. 1, 135s., ex store; to arrive, 120s., c.i.f. Talha, 45s., ex warehouse; forward, 42s., c.i.f.

IRISH MOSS.—French select bleached is quoted at 120s. per cwt.; No. 1, 105s.; No. 2, 95s. per cwt.

JALAP.—Vera Cruz, spot, from 3s. 5d. to 4s. per lb., as to test (15 to 17 per cent. resin). Brazilian (11.2 per cent.), 1s. 6d. per lb., spot.

KARAYA.—No. 1 gum, 210s., and No. 2 at 180s. per cwt., spot. May imports totalled 700 cwt. (£5,707).

KOLA NUTS.—African quarters are available at 6d. per lb.; African halves, 3d to 4d., according to quality; Jamaican washed halves, 4½d. per lb.

LIQUORICE.—Anatolian natural root on spot is offering from 47s. to 50s. per cwt., as to holder; Syrian, 45s. Italian block, 375s. per cwt., spot.; Italian stick, £385 to £525 per ton, as to quantity and grade. Turkish block is available at from 240s. per cwt.; Syrian block, to come forward, 405s., duty paid.

MYRRH.—Aden sorts, £13 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG.—West Indian 80's, on spot, quoted at 3s. 4d.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 8d.

NUX VOMICA.—Madras, on spot, is steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d. to 45s., spot.

OLIBANUM.—Fair to good drop, from 200s.; pea size, 200s.; good garblings, 160s.; seeds, 170s.; siftings, 95s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. per lb., in Liverpool.

PAPAIN.—East African No. 1, 26s. per lb., spot; Ceylon, 21s.

PIMENTO.—Spot is quoted 1s. 2d. per lb.; to arrive, 119s. per cwt., c.i.f.

QUASSIA.—Price of chips is unchanged at 37s. 6d. per cwt., spot.

QUILLAIA.—Natural bark is offering about 105s. per cwt., spot.

QUINCE SEEDS.—Cape on spot is quot at from 4s. 3d. to 5s. per lb.

RHATANY.—A limited business reporte Spot values steady at 9d. per lb.

RHUBARB.—Chinese rough-round is offe ing at from 4s. 3d. to 4s. 9d. per lb., sp

SANDARAC.—Spot quotation is at 5s. p lb.; to arrive, 4s., c.i.f.

SARSAPARILLA.—Jamaican, native r spot, quoted at 2s. 4d. per lb.; 2s. 3d., c.i

SEEDS.—ANISE.—Cyprus is 1s. 6d. p lb., and Turkish, 1s. 5½d. per lb., du paid, both spot London. CARAWAY. Dutch is quiet and unchanged. Sellers a asking 11d. per lb., duty paid, spot Lo don. CELERY.—Indian is in poor deman 1s. 3d. per lb., quoted spot London Liverpool. CORIANDER. — Market du Argentine is offered at 42s. 6d. per cw duty paid, spot London. Splits are offe at 32s. 6d. per cwt., duty paid ex wha London or Liverpool. CUMIN.—Indian quoted cheaper on spot; 210s. per cwt., store Liverpool or Hull, asked; Cypr spot London, is 212s. 6d. per cwt. DI —Indian is firm at 47s. 6d. per cwt. sp London, and 46s. per cwt., ex store Liv pool. FENNEL.—Indian is quiet and u changed; 72s. 6d. per cwt. is quoted, sp London, and 70s. per cwt., ex store Liv pool. FENUGREEK.—Indian is firm 47s. 6d. per cwt., spot London or Liverpo

SENEGA.—Little activity reported; sp prices are from 10s. 6d. to 11s. per lb.

SENNA.—Tinnevelly leaves on the sp are quoted as follows: No. 1, 9d. to 1s. p lb.; No. 2, 8d.; No. 3, 5½d. Tinneve pods, hand-picked, 9d. to 1s. 4d.; ma facturing, 5d. to 5½d. Alexandrian po hand-picked, spot, from 4s. 9d. to 5s. 9 according to quality; medium, 2s. 9 manufacturing from 1s. to 1s. 9d. per l Alexandrian leaves, 1s. 2d. per lb., f.a.q.

SHELLAC.—Spot quotations, ex wa house, London, F.O.T.N. pure, 325 F.O. Standard 1, 335s.; fine orange, 34 to 385s. per cwt.

SQUILL.—Italian white, 63s. to 65s. p cwt., spot, according to quality and sell

STROPHANTHUS.—100 per cent. Kombé quoted at 12s. 6d. per lb., spot.

STYRAX.—Supplies on the spot a offered at 7s. 9d. per lb., duty paid.

TAMARINDS. — Barbados is quoted 52s. 6d. per cwt., duty paid.

TONKA BEANS.—Frosted Pará on t spot is quoted at 5s. 6d. per lb.

TRAGACANTH.—Quiet. Selected wh ribbon, spot, £100 per cwt.; other wh grades, from £55 to £97; pale leaf, £35 £50; amber, £23 to £33; red, £14 to £2 hoggy, £5 to £11.

TURMERIC.—Madras finger on the spot quoted at 110s. per cwt.; shipment off range from 92s. 6d. to 100s., c.i.f.

Essential and Expressed Oils

ALMOND.—Sweet oil, 8s. to 9s. per lb. tter essential oil is quoted from 30s. to s. per lb., as to quality and seller.

CARAWAY.—English-distilled is offering 37s. to 40s.; imported oil, 28s. to 30s. r lb.

CINNAMON.—B.P. oil, 60s. to 70s. per Leaf oil, on the spot, is at from 7s. 9d. 9s. per lb.

CITRONELLA. — Ceylon is offering at 6d. per lb., spot, and 3s. 3d., c.i.f. Java spot is 7s. per lb.; 5s. 6d., c.i.f.

CLOVE.—Quotations for English-distilled d oil are lower at from 10s. 6d. to 11s. r lb.

CUMIN.—English-distilled oil is quoted 75s. per lb.

DILL. — Market is steady. English-tilled oil, about 75s. per lb.

EUCALYPTUS.—70-75 per cent. (B.P.), 3d. per lb. for drums, and up to 5s. 9d. smaller quantities; 3s. 8d., c.i.f.

GERANIUM.—Bourbon is offering at prices m 52s. 6d. to 62s. 6d. per lb., as to grade. arket is dull.

GINGER.—Prices are from 70s. and up-rds per lb., according to grade.

GUAIACWOOD. — Merchants are quoting s. to 20s. per lb.

LEMONGRASS.—Offered at 5s. 9d. per lb. original containers, with up to 6s. 6d. ked for smalls; forward, 5s. 4d., c.i.f.

LIME.—West Indian is quoted at 27s. 9d. 30s. per lb., as to holder and quantity.

NUTMEG.—English-distilled oil is priced from 39s. to 40s. per lb.

OLIVE.—Price to wholesalers is fixed at s. 8d. per gall. of 9 lb.

PALMAROSA.—Supplies continue short on t and prices are at 35s. per lb.; for-rd, 30s., c.i.f.

PEPPERMINT.—English-distilled "Mitch-," is quoted at 180s. to 225s. per lb.

PINE.—*Pumilionis* is quoted at 18s. to s. per lb., spot; *sylvestris*, 12s. 6d.

Synthetics and Isolates

OTATIONS are per lb. and vary according to de, quantity and seller.

ACETOPHENONE.—10s. 6d. AMYL ACETATE.—2s. 9d. YL BENZOATE.—5s. 6d. to 6s. 6d. AMYL BUTY-E.—5s. 6d. to 6s. 6d. AMYL PHENYLACETATE.—6d. to 8s. AMYL SALICYLATE.—3s. 3d. to 4d. AMYL CINNAMIC ALDEHYDE.—16s. to 17s. 6d. ETHOLE.—12s. to 13s. ANISIC ALCOHOL.—65s. to ANISIC ALDEHYDE.—Ex paracresol, 22s. 6d.; fumery grade, 25s. to 27s. 6d.

BENZALDEHYDE.—B.P.C., 4s. to 5s. BENZOPHE-NE.—11s. to 13s. BENZYL ALCOHOL.—Perfumers', 6d. to 4s. 6d. BENZYL ACETATE.—3s. 6d. to 6d. BENZYL BENZOATE.—Perfumers', 4s. 9d. to 3d. BENZYL CINNAMATE.—12s. 6d. BENZYL EUGENOL.—About 35s. BENZYL PROPIONATE.—to 8s. 6d. BENZYL SALICYLATE.—7s. to 8s. 6d. BENZYL SUCCINATE.—20s. to 22s. 6d. BENZYLIDENE ACETONE.—15s. to 17s. BORNEOL.—10s. 6d. BORNYL ACETATE.—10s. to 12s. 6d. BROMSTYROL.—32s. 6d. to 35s. BUTYRIC ACID.—5s. 6d. to 6s. 6d.

CINNAMIC ALCOHOL.—17s. to 18s. 6d. CINNAMIC ALDEHYDE.—6s. 6d. to 7s. 6d. CINNAMYL ACETATE.—22s. 6d. CINNAMYL BUTYRATE.—27s. 6d. CITRAL.—Pure, 30s. to 35s. CITRONELLAL.—32s. 6d. CITRONELLOL.—Ex Ceylon, 30s.; ex Java, 32s. 6d. to 37s. 6d. COUMARIN.—19s. to 20s.

DIETHYL PHTHALATE.—2s. to 2s. 6d. DIMETHYL BENZYL CARBINOL.—50s. DIMETHYL HYDROQUINONE.—37s. 6d. to 40s. DIPHENYL METHANE.—6s. 6d. to 7s. DIPHENYL OXIDE.—5s. 6d.

ETHYL BENZOATE.—5s. 6d. to 6s. 6d. ETHYL BUTYRATE.—6s. to 7s. ETHYL CINNAMATE.—12s. 6d. to 13s. ETHYL ŒNANTHATE.—18s. 6d. to 20s. ETHYL SALICYLATE.—5s. to 6s. ETHYL VANILLIN.—51s. EUGENOL.—14s. to 16s.

GERANIOL.—Ex Ceylon, 15s. to 20s.; ex Java, 31s. to 35s.; ex Palmarosa, 70s. to 72s. 6d. GERANYL ACETATE.—Ex Java, 32s. to 35s.

HELIOTROPINE.—21s. 6d. to 22s. 6d. HYDROXYCITRONELLAL.—Perfumers', 65s. to 70s.; for soaps, 50s. to 60s.

INDOLE.—18s. to 20s. (per oz.). IONONE.—100 per cent., 32s. 6d. to 35s. ISOBUTYL ACETATE.—2s. 6d. to 3s. 6d. ISOBUTYL BENZOATE.—5s. 6d. to 7s. ISOBUTYL SALICYLATE.—6s. to 7s. 6d. ISOEUGENOL.—17s. 6d. to 19s.

LINALOL.—50s. to 52s. 6d. LINALYL ACETATE.—52s. 6d. to 55s.

METHYL ACETOPHENONE.—12s. 6d. to 14s. METHYL ANTHRANILATE.—15s. to 17s. 6d. METHYL BENZOATE.—5s. 6d. to 6s. 6d. METHYL CINNAMATE.—12s. 6d. to 13s. METHYL PHENYLACETATE.—7s. 6d. to 8s. 6d. METHYL HEPTIN CARBONATE.—285s. METHYL IONONE.—40s. to 42s. 6d. MUSK KETONE.—55s. MUSK XYLOL.—12s. 6d. MUSTARD OIL (artificial).—16s. 6d. to 18s.

NEROLIN BROMELIA.—17s. 6d. NEROLIN YARA YARA.—9s. 6d. to 10s. 6d.

PARACRESYL ACETATE.—8s. 6d. to 9s. 6d. PARACRESYL PHENYLACETATE.—10s. 6d. to 11s. PHENYLACETALDEHYDE.—80s. PHENYLACETIC ACID.—6s. 6d. to 8s. 6d. PHENYLETHYL ALCOHOL.—21s. 6d. to 23s. 6d. PHENYLPROPYL ALCOHOL.—25s.

RHODINOL.—135s. to 145s.

SAFROLE.—10s. 6d. SANTALOL.—100s. to 120s. STYROLYLENE ACETATE.—10s. 6d. to 11s. 6d.

TERPINEOL (perfumers').—4s. to 5s. TERPINYL ACETATE.—10s. 6d. to 11s.

VETIVEROL and VETIVERYL ACETATE.—425s. per lb.

World Mineral Industries

No. 6—Bromine

THE following table gives principal producers of bromine and their output (in lb.).

PRODUCING COUNTRY	1938	1941	1944
United States (c)	1,085,000	1,709,000	1,342,000
Palestine (c) ...	1,715,000	430,000	642,000
France ...	(b)3,300,000	(a)	(a)
Germany ...	353,000	(a)	(a)
Italy	33,324,116	68,317,019	102,112,462

(a) Information not available. (b) Estimated. (c) Includes bromine content of compounds.

TRADE MARKS

(*From "The Trade Marks Journal," June* 23)

"FLEXIL"; by Ernst Grossenbacher, St. Gall, Switzerland; B651,913. For inhalers and vaporisers for medical purposes (10).

"CURATOR"; by C. & J. Clark, Ltd., Street; 660,079. For orthopædic instruments, apparatus and appliances (10).

"MINSTER"; by Appletons (Leeds), Ltd., Leeds; 638,560. For combs, etc. (21).

(*From "The Trade Marks Journal," June* 30)

"ALCOPOL"; by Allied Colloids (Bradford), Ltd., Bradford; 656,854. For industrial chemicals (1).

"KODAPAK"; by Kodak, Ltd., London, W.C.2; 657,952. For industrial solvents (1).

"FLECHES"; by Lancome S.A., Paris; B655,069. For perfumes (3).

"PERFEX HAIR CREAM" on label device; by Edward C. Cook & Co., Northampton; B655,145. For hair cream (3).

"VIGDOR"; by Vigdor, Ltd., London, W.2; B656,750. For perfumes and cosmetics (3).

"KEWTIK"; by Thornton & Ross, Ltd., Linthwaite; 657,453. "FLUXOR"; by Gimelli & Co., Bern-Zollikofen, Switzerland; 658,691. "SONI IBETTA"; by Harry Ibbetson, Stevenage; 660,488. "DUSK"; by Skuse & Co., Ltd., London, N.W.10; 660,566. "HEMOBIOS"; by Société de Grands Travaux Scientifiques, Paris; 660,844. For non-medicated toilet preparations (3).

"RED STAR" and star; by the Ridyard Tablet Co., Ltd., Codnor, Derby; 646,567. For bronchial mixture and lozenges (5).

"G.R." and device of syringe in square design; "VAGADIL"; by Gedeon Richter (Great Britain), Ltd., London, N.W.5; B648,051 and 658,535. "SIOGEN"; by J. R. Geigy Aktien-Gesellschaft, Basle, 16, Switzerland; 652,523. "GABBROPAL" and "GABBRODONT"; by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan, Italy; 656,427-28. "KEWTIK"; by Thornton & Ross, Ltd., Linthwaite; 657,454. "MYCOPAR"; by Hugh Seymour Griffiths, Pembroke Dock; 660,495. "DETENSYL"; by Medico-Biological Laboratories, Ltd., London, S.E.25; 661,095. "PHERIBAN"; by Maclennan Brand Products, Ltd., London, S.W.2; 661,196. "BRUMOL"; by Broom, Reid & Harris, Ltd., Exeter; 661,222. "KURITIS"; by United Chemists Association, Ltd., Cheltenham; 661,397. For pharmaceutical preparations and substances (5).

"RAVELLE"; by Blynds Hill Laboratories, Farnworth, Lancs; 650,028. For medicated skin cream (5).

"THE CALPE PHARMACY GIBRALTAR" on medallion device; by The Calpe Pharmacy, Gibraltar; 651,156. For pharmaceutical preparations not being for the treatment of corns (5).

"WHITTAKER'S APERIENT POWDER" on label device; by Ellis Whittaker, Ltd., Salford, 5; B653,014. For aperient powder (5).

"RODANTU"; by Rodmill Chemical Co., Ltd., Liverpool; 657,771. "FUMITE"; by the Wessen Aircraft Engineering Co., Ltd., Middle Woodford, Wilts; B659,451. For disinfectants and weed- and vermin-destroying preparations (5).

"SYNASIL"; by British Schering, Ltd., London, W.1; 656,272. For pharmaceutical preparations for use in the treatment of hyperacidity and peptic ulcer (5).

"NAPPIERS"; by George Wright Taylor, Moortown, Yorks; 656,636. For surgical dressings (5).

"POLYDOX"; by Robert William Adams, London, N.4; 659,539. For medicated preparations for the feet (5).

"GLAMORNE"; by George Wright Taylor, Moortown, Leeds; 659,937. For pharmaceutical tonic preparations (5).

"STROGENE"; by John Wyeth & Brother, Ltd., London, N.16; 660,276. "SONI IBETTA"; by Harry Ibbetson, Stevenage; 660,489. "NOTAPOULE"; by Hirst, Brooke & Hirst, Ltd., Leeds; 661,220. For all goods (5).

"LA SIRENE"; by Osborne, Garrett & Co., Ltd., London, W.1; 657,850. For hair-waving and curling appliances (5).

"LINDENTA"; by Lindum Dental Laboratory, Lincoln; 660,146. "PURLEXO"; by B. J. and K. D. Wilson, Northampton; 660,487. For artificial teeth (10).

"SENSATOR"; by G. Fermor, Kenton, Middlesex; 661,430. For hair, tooth, clothes brushes (21).

COMING EVENTS

Wednesday, July 21

BRITISH STANDARDS INSTITUTION, Institution of Electrical Engineers, Savoy Place, Victoria Embankment, London, W.C.2, at 3 p.m. Annual meeting.

Thursday, July 22

WEST HAM ASSOCIATION OF PHARMACISTS. Outing to Whipsnade, leaving Stratford Broadway (nr Boardman's) at 1.30 p.m. Cost, including tea 15s. each. Bookings to Mr. W. H. Cloud, 4[illegible] Longbridge Road, Barking, Essex (Telephone Rippleway 3829).

FIFTY YEARS AGO

High Times for Pharmacy

(*From the C. & D., July* 16, 1898)

THIS week has been a notable one fo[illegible] British pharmacy. Tuesday, July 12, 1898 was the red-letter day of the year. On tha[illegible] day, almost simultaneously in the House of Lords and Commons, pharmacist[illegible] secured distinct successes, if not famou[illegible] victories. We deal elsewhere with the col[illegible]lapse of the Government Bill for the regu[illegible]lation of the sale of "poisonous substances" so discourteously thrust upon us, an[illegible] pushed through the House of Lords wit[illegible] such disreputable haste. We are not sur[illegible] that that snake is more than scotched; w[illegible] may have to deal with him again nex[illegible] year . . . We are entitled to congratulat[illegible] the trade on the vigour, the unanimity and the successful result of their demon[illegible]stration . . . The chemists of today showe[illegible] that they had grit in them of the sam[illegible] character as that which their predecessor[illegible] of sixty years ago displayed.

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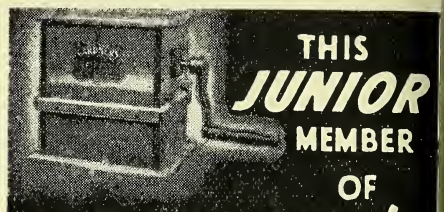

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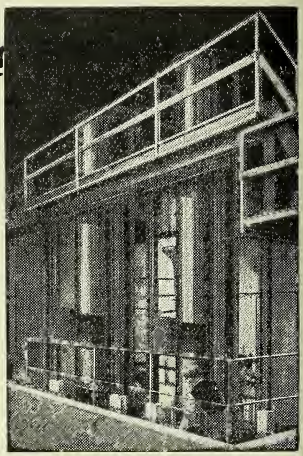

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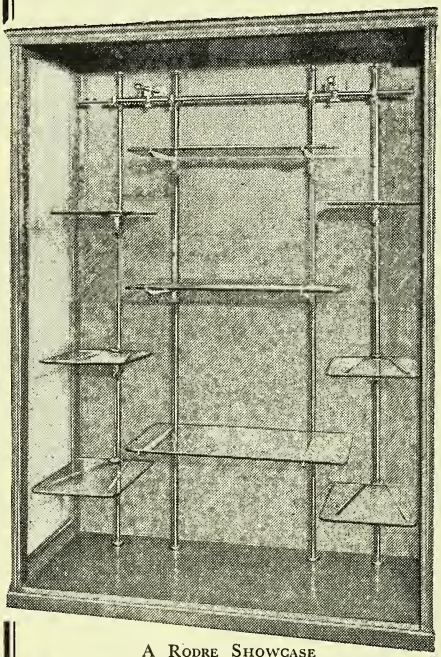

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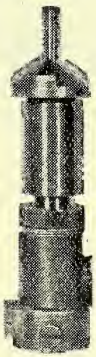
ADELPHI BOTTLE WASHER



this is another example of our range of PRECISION EQUIPMENT

IT WILL SOLVE YOUR BOTTLE-WASHING PROBLEM

PROMPT DELIVERY

- Simple Action.
- Thorough Cleansing.
- Complete Emptying.
- Wide range, any type of bottle.
- Sprinkler necks can be washed at the rate of 400 per hour.

CONNECT TO ANY MAINS SUPPLY TAP. NO SKILL NEEDED

ADELPHI Manufacturing Co., Ltd.

(Dept. C.D.)

393A CITY ROAD, LONDON E.C.1

JKL

ANISEED
ALOES
ARECA NUTS
BALSAMS
FENUGREEK
JUNIPER BERRIES
LIQUORICE ROOT
LIQUORICE Juice, Sticks & Blocks
ORANGE PEEL CURACAO
SENEGA ROOT
and all other Botanicals

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, LONDON, E.C.2
Telephone: LONdon Wall 4882, 6585, 6586
Telegrams: "Ergotine, Stock, London."

ISAAC WEBSTER & SONS, LTD
ABBEY WORKS, KIRKSTALL, LEEDS,
Phone 1580 Headingley. Grams: Isaac Webster, Kirksta

CALL OR TELEPHONE

R. S. KING LTD.
274 MILE END ROAD
LONDON : E : 1
Tel.: STEpney 4874-5

Special Offers: NOW IN STOCK
" Griptight " Soothers, 3/4 per doz.
" Griptight " feeding bottles, 10/6 per doz.
Honeypot fly bands, 10/6 per gross.
1/- D.D.T. liquid, 9/- per doz.
1/6 Flit, 13/- per doz.
Bottle sprayers, 24/- per doz.
Hand sprayers, 30/- per doz.
Cloudy ammonia, 8-oz., 6/9 per doz.
Cloudy ammonia, 12-oz., 10/- per doz.
Sun glasses, 13/6 per doz. pairs.
8 in. Tail combs, 2/8 per doz. inclusive.

Now in prompt Supply

The
Quality Brand
of Surgical Rubber Goods
Finest and most reliable!

SELKA LTD.
28 DERING ST., BOND ST., LONDON, W.1
Mayfair 2412
Factory: TRADING ESTATE, SLOUGH, BUCKS

NORTH BRITISH

OCAL POINT FOR RUBBER PRODUCTS

Air Cushions, Hot Water Bottles, Nursing Aprons, Water Beds, Cot Sheets, Combs and many other high quality NORTH BRITISH Rubber Products in steady demand are obtainable through your wholesaler.

W14

HE NORTH BRITISH RUBBER CO. LTD. EDINBURGH, LONDON & BRANCHES

Thanks to SELLOTAPE, you needn't worry any longer about that torn label on Mrs. Jones' prescription —fix it with Sellotape and the label will remain undamaged and unstained, legible during constant use. Sellotape seals bottles, jars and tins hermetically and efficiently; secures parcels and protects them from dirt, damage and pilferage. It s ideal.

Available in many widths, in colourless transparent, or a range of colours, plain or printed with your sales message.

In dispensers for quick, clean, economic use.

Also supplied in small rolls and dispensers for resale to the public.

MRS. JONES' LABEL IS SAFE NOW!

Sellotape

SELF ADHESIVE CELLULOSE TAPE

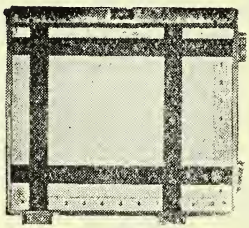
GORDON & GOTCH LTD. (Dept. C.D. 9), 75/79 FARRINGDON STREET, LONDON, E.C.4.

PHOTOGRAPHIC GNOME PRODUCTS LTD.

A New Masking Frame

"THE GNOME DE LUXE"

Adjustable Margin



With this Masking Frame a white border from $\frac{1}{16}$ in. to 1 in. may be obtained all round the print. The four Masking Strips can all be adjusted, the border is not fixed on any side

ALL-METAL CONSTRUCTION

RETAIL PRICES

W.O.N.	Size	Price	Purchase Tax	Total
41C	8½ in. × 6½ in.	£1 18 0	16 6	£2 14 6
42C	10 in. × 8 in.	£2 4 8	19 5	£3 4 1
43C	12 in. × 10 in.	£2 15 0	£1 3 10	£3 18 10
44C	16 in. × 12 in.	£4 1 0	£1 15 1	£5 16 6

Ask your Dealer, or write direct to manufacturers for illustrated catalogue.

354, Caerphilly Road, Cardiff

Cheer-i-o

SAFETY

RAZOR BLADES

★—★—★

Sole Makers . . .

The Wafer Razor Co. Ltd.

20 Hill Street, Sheffield, 2

PHONE 51824

Put **RENTAN** *in your window*

Send TODAY for full particulars of this amazing offer. RENTAN, the latest scientific discovery in Rodent Destruction, packed in attractive carton, easy to display, easy to sell and more profit for you.

Write to

RENTOKIL LTD., School Lane, Fetcham, Surrey

and **44%**

PROFIT in your TILL

RENTAN retails at a 1/- per packet

Mandelle

MOULDED HOT WATER BOTTLES

FABRIC HAND-MADE WATER BOTTLES

HOSPITAL SHEETINGS

BATHING CAPS, ETC., ETC.

WHOLESALE ONLY

J. MANDLEBERG & CO. Ltd. SEAFORD RD., SALFORD, 6 LANCS.

GOODWILL!

RADIO TIMES
NEWS of the WORLD
DAILY EXPRESS
THE PEOPLE
DAILY MIRROR
NEWS CHRONICLE

Frequent advertisements in these and other leading papers are building strong goodwill for **Mathaplast.** This well-advertised line won't stay long on the shelf

"Mathaplast" REGD

FIRST AID ELASTIC DRESSINGS

Wm. MATHER LTD., MANCHESTER 15

FACT-NOT FICTION

says **ANONA WINN**

Famous Stage and Radio Star.

Miss Anona Winn is recommending AURORAL DYES in millions of advertisements in periodicals and magazines during 1948.

Less 5% for cash in 7 days

AURORAL
Cold Water Dyes
48/- gross

WINNER
Home and Stocking Dyes 24/- gross

WHITAKERS OF KENDAL

DOMESTOS sells *FAST*

Domestos is the quick-selling repeat line that is popular with the housewife in 3 ways—Bleach, Cleanser and Disinfectant. Used as a BLEACH it gives whiter whites on washdays—used everyday as a CLEANSER it makes light work of all the rough work in the home. As a DISINFECTANT and cleanser for lavatories it is ideal. Be sure you stock Domestos—it brings profit and goodwill. Write to-day for Trade terms.

DOMESTOS
LIMITED
COLLEGE WORKS, NEWCASTLE UPON TYNE, 6

AUSTERITY LABELS

WHICH INCUR

NO PURCHASE TAX

Full range in stock

WRITE

TOWNSENDS

LABEL PRINTERS

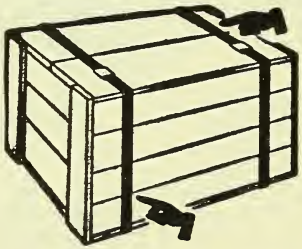
EXETER

USE :—

Wire Bands

BANDING SYSTEM

It's speedy! It's simple!! Above all—It's Secure!!!



THESE BANDS WILL ENSURE YOUR GOODS ARE DELIVERED INTACT

Wire Bands

114, LANCEFIELD STREET, LONDON, W.10
Ladbroke 0725

PROFIT FOR YOU

from

INSECT PESTS!

Stock and displa the nationally ad vertised "Beetle scram" 2 oz. Puffe Box—the best anti pest yet. **Now sell ing at 1/3.** Packe in highly attractiv display boxes of doz. at **10/9** per doz (13 to doz.)

Beetlescram

DOES THE JOB OVERNIGHT

Order from your wholesaler or direct from

SCRAM PRODUCTS Ltd., LONDON, N.W.

when you sell

SCRUBB'S

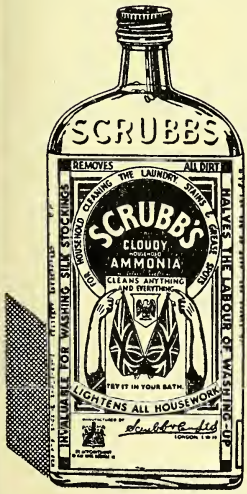
you are offering

a range of products ***world-wide in popularity***

In addition to Home production, Scrubb's products are made on the spot in various European Countries, in Australia, New Zealand, India, South Africa, Rhodesia, South America and Eire, Scrubb's Cloudy Ammonia is exported to all parts of the world where local supplies are not available. The latest addition to this wide distribution embraces various staging points on British Overseas Airways routes.

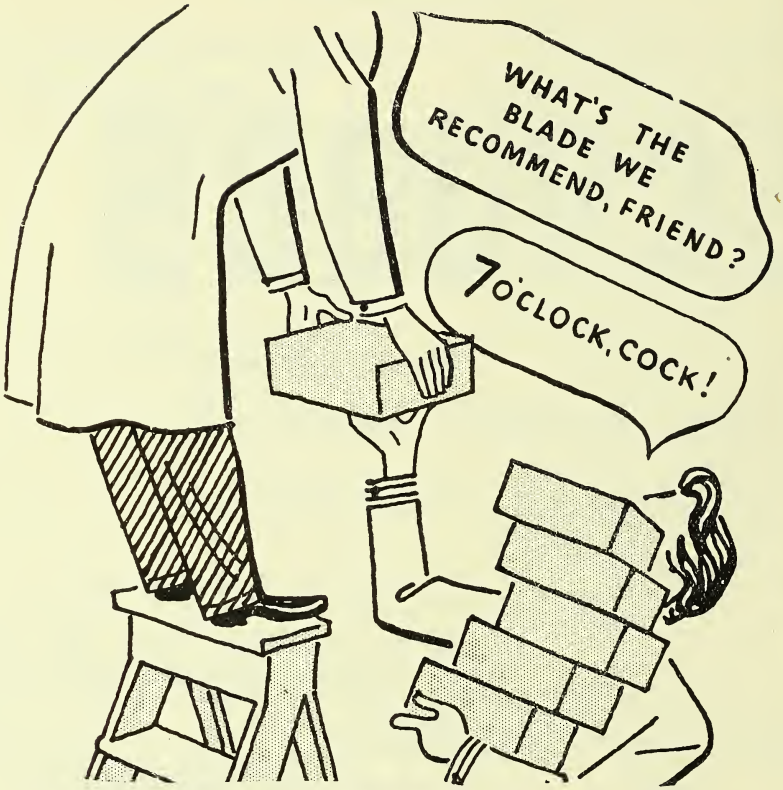
Scrubb's products are advertised all over the world. Press programmes are running in sixteen countries. Other methods cover radio, films, slides, neon lighting and direct mail.

The world-wide demand is ever increasing. Our overall overseas turnover in 1947 is 300% UP on 1939! In many parts, demand considerably exceeds supply owing to restrictions and shortages of packing materials.



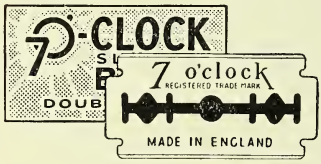
To promote a freer supply of Scrubb's products in this country—we are opening many new Factories overseas. Despite this, however, the vital needs of our Export trade will still unfortunately make home supplies restricted.

CHEMICAL & NATURAL PRODUCTS LTD., Wimbledon Factory Estate, Morden Rd., London, S.W.16



Every now and then an advertising slogan becomes a national catchword. That's what is happening with the phrase, "7 O'CLOCK, Cock!" Every month more men are noticing it . . . repeating it . . . talking about it to their friends. And the result will be seen in a bigger and bigger demand for 7 O'CLOCK, the wonderful triple-ground razor blades. Stock and recommend 7 O'CLOCK blades.

7 o'clock
BLADES



Now 11D FOR SIX
Including Tax

Actually **COST LESS** *than* **PRE-WAR**

Trade enquiries to your wholesaler or to Gillette Industries Ltd., Gillette Corner, Great West Road, Isleworth, Middx.

"Mirror, Mirror tell me true . . .
am I selling the Right Shampoo?"

If you stock

Pink Ribbon

—yes

The Mirror says Yes to PINK RIBBON—It couldn't do otherwise.

Large-scale National Advertising is increasing demand and pushing up Sales and Profits everywhere.

Distributors for England, Wales and Northern Ireland :

SALE, TILNEY (MARKETING) LTD.,
3 LLOYDS AVENUE, LONDON, E.C.3

Scotland : The Southern Manufacturing Co. Ltd., 214-216 West Regent Street, Glasgow, C.1

for some...

for others..

for *all* requirements-

display them side by side

TAMPAX

Sanitary Protection Worn Internally

Experience has shown that when the new Super Absorbent Tampax No. 2 takes its place beside Regular Tampax No. 1, sales of Tampax in that market rise by as much as 50%. There is a simple reason for this. Some women find Tampax No. 1 adequate for their needs: others require the 40% greater absorbency of Tampax No. 2. But there are yet others who purchase **both** sizes. In all, the two absorbencies — separately or together — cater for all requirements. That's why it's sound business to display them **side by side**. For where women **see, they buy.**

REGULAR TAMPAX No. 1. Retail: 1/9d. per packet. Trade: 15/9d. per doz. packets.

SUPER ABSORBENT TAMPAX No. 2. Retail: 2/- per packet. Trade: 18/- per doz. packets.

TAMPAX LTD., *SALES OFFICE:* 110 JERMYN ST., LONDON, S.W.1. *PHONE:* WHITEHALL 8696/7

Intensive New SILKTONA ADVERTISING CAMPAIGN

Means Bigger Summer Sales for YOU!

During June, July and August, a nationwide advertising campaign will sell tens of thousands of young women a new fashion—"the SILKTONA Leg Make-Up Fashion."

Striking advertisements in the National Dailies and Weeklies and selected magazines will explain how Silktona Leg Make-Up saves precious coupons—gives legs added "glamour" in sports or beach wear.

Cash in on this current fashion! Stock up NOW with Silktona Leg Make-Up. Display the attractive sachet in windows and on counter. Be ready for the enormous demand created by Silktona advertising.

Available from your usual wholesaler New Reduced Price 8d. a packet

Silktona
LEG MAKE-UP

Sole Distributors :—
ALFRED, FRANKS & BARTLETT
AUDREY HOUSE,
ELY PLACE, E.C.1.

BROBAT BRODRY BROAMAT BROBAT SUDS

BROBAT ... and now BROBAT

BRODRY BROAMAT BROBAT SUDS BROBAT

BROAMAT BROBAT BRODRY BROBAT

BRODRY

BRO

BROAM

Brobat Disinfectant Germicide is the latest additio to the BROBAT range. Stock up NOW with th powerful (4 times stronger than carbolic) non poisonous non-staining Germicide and take advan tage of the National Press Advertising Campaig

Limited supplies of BROAMAT, the coupon fre liquid woolly washer, are now available.

Enquiries invited from Wholesalers, and stockists in England & Wales.

BROBAT DISINFECTANT GERMICIDE

Brobat Distributors, Ltd., 241 Main Rd., Sidcup. Tel.: Footscray 132

Investing money

WITHOUT ANXIETY

WITHOUT trouble to you, and without charge, your Bank is now able to make it easy for you to invest money towards your own future security—and your country's prosperity. Your signature on a Banker's Order form will ensure for you either a single purchase of a number of National Savings Certificates, or the regular monthly inflow of as many Certificates as you like — up to the total of 1,000 which you may hold. In ten years' time each 10s. Certificate will be worth 13s.—your £500 will have grown to £650 tax free—a very worthwhile investment indeed. To the surtax payer the Savings Certificate is even more profitable. *See your Bank Manager about it today.*

SAVE—*The Bank Way*

Issued by the National Savings Committee

CUSTOMERS AND CHEMIST

Said Farmer Jim with great elation,
" Your Rodine made a big sensation,
In barn and granary, yard and shed
A hundred rats were lying dead."

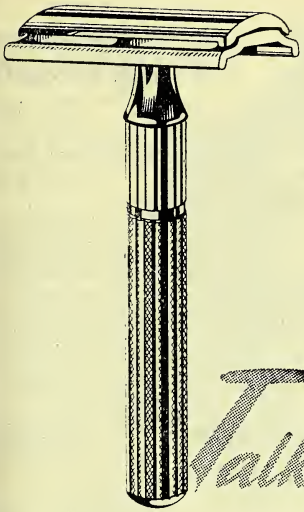
Rodine

THE IRRESISTIBLE

RAT KILLER

M.A.F. Licence No. 10046. P.A.T.A

T. HARLEY, LTD., PERTH, SCOTLAN



Talking of precision

Gillette advertisements are now reminding the public that . . . when a razor grows old and worn, shaving is bound to suffer . . . Gillette razors and blades are precision instruments working in close partnership for perfect shaving . . . with Gillette razors once again plentiful, the public is being told now is the time to buy a new one and enjoy the perfection that modern precision-shaving offers.

See that your stocks of Gillette are adequate. With the solid, continuous backing of Gillette advertising behind you, make the most of this great opportunity to . . .

Sell more

Gillette Razors

Gillette Industries Limited, Great West Road
Isleworth, Middlesex

Prolonged Protection

AFTER the successful application of an antiseptic, there still remains the risk of fresh contamination by pathogenic organisms. It is important, not only that the barrier should be effective when first set up, but that the protection should be prolonged.

The protection conferred by 'Dettol' is durable. It has been shown that if 30% 'Dettol' is applied to the skin and allowed to dry, the area remains insusceptible to fresh infection by *streptococcus pyogenes* for at least two hours.*

**This experimental finding (J. Obstet. Gynaec. Brit. Emp. Vol. 40 No. 6) has been confirmed in obstetric practice extending well over a decade.*

'DETTOL'

THE MODERN ANTISEPTIC

RECKITT & COLMAN LTD., HULL AND LONDON
(PHARMACEUTICAL DEPARTMENT, HULL)

THE HOUSE OF
HAYWOOD
Est. 1830

Everything Surgical
BELTS AND TRUSSES, ELASTIC HOSIERY, COTTON DRESSINGS, CHEMISTS' SUNDRIES, PROPRIETARY MEDICINES.

Enquiries invited. WHOLESALE ONLY
Regd. Office:
11, 13 & 23 WARSER GATE NOTTINGHAM
TELEPHONE: 40488 and 45164
TELEGRAMS: APPLIANCE NOTTM.

JACQUESIL FABRICS LTD.
RED BANK MILLS, RADCLIFFE
Nr. MANCHESTER

makers of the famous
"DAWN" FACE CLOTH
Regd.

CAN NOW OFFER A RANGE OF
FACE CLOTHS
RAZOR TOWELS
AND
HAND TOWELS
FOR EXPORT

—unfortunately not for Home Trade

London Representative
G. H. Bolton, Charterhouse Chambers
Charterhouse Square, E.C.1

ECOMMEND

PLESOX

The DIFFERENT

STOMACH TREATMENT

WITH

NATION-WIDE ADVERTISING
ATTRACTIVE WINDOW DISPLAY
RECOMMENDATION
OF
SATISFIED USERS

50% PROFIT ON OUTLAY

ARRESTING WINDOW SEALS
CONVINCING LITERATURE

A large proportion of all stomach sufferers, and most long-standing cases do not respond well to alkaline or antacid products and call for **A SAFE RELIABLE REMEDY ON SOME QUITE *DIFFERENT* PRINCIPLE. As THEY NEED IT, SOONER OR LATER**—whether in your shop or elsewhere—SUFFERERS WILL DISCOVER **PLESOX**—and become satisfied users.

WHY LOSE such grateful customers with their constant repeat orders and recommendations to others.

Order now at 23/- mixed display cartons (8 small 4 medium)

SHOWING 50% PROFIT ON OUTLAY.

Retail Prices: **2/3d plus 6d P. Tax. 4/1½ plus 11d P. Tax. 6/9d plus 1/6d P. Tax.**

Distributors for GREAT BRITAIN: **SPLENDOR LIMITED, NOTTINGHAM.**

MANUFACTURERS: GRANTO LABORATORIES LTD., 2 PARKSHOT, RICHMOND, SURREY

PERNAEMON FORTE

again freely available

A Liver Extract of Exceptional Purity and High Hæmopoietic Activity for Painless Parenteral Therapy.

For the treatment of:—

Addisonian Pernicious Anæmia,
Idiopathic Ulcerative Colitis and Sprue,
Drug and X-ray Intoxication.

Every batch issued is clinically tested

2cc. ampoules :—packs of 3, 12 and 50.
5cc. vials :—packs 1, 6 and 12.

Literature on request.

ORGANON LABORATORIES LTD.

Engaged solely in the production and distribution of natural and synthetic hormones, vitamins and related therapeutic substances

BRETTENHAM HOUSE, LONDON, W.C.2

TEMPLE BAR 6785 (5 lines) MENFORMON, RAND, LONDON

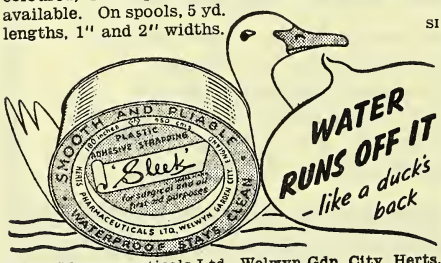
AGENTS THROUGHOUT THE BRITISH EMPIRE & MOST OVERSEAS TERRITORIES

'Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING

'Sleek', the up-to-the-minute zinc oxide strapping, is the latest development in the surgical plaster field. Its smooth, plastic surface resists water, oil and antiseptics, and discourages dirt and stains. 'Sleek' cannot fray or catch in clothing. Flesh-coloured, inconspicuous. Plentiful supplies now available. On spools, 5 yd. lengths, 1" and 2" widths. SI



Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.

NIPITS

TEASDALE & CO. LTD., CARLISLE

"OTAFLORA"

SUN TAN OIL

2 oz. bottles 6/- dozen
(P.T. 100%)

In fancy flat toilet bottles with black plastic screw caps

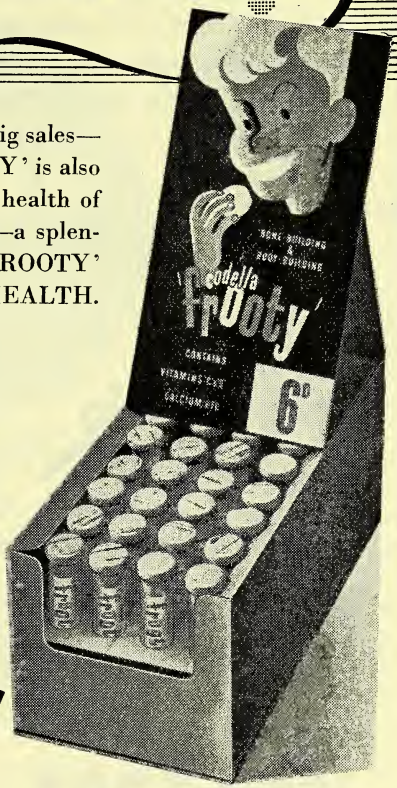
J. M. SMITH & CO.
(LONDON) LIMITED
Camelot Street, London, S.E.15

DELLA 'FROOTY' is the password to big sales—
reased turnover—good profits. 'FROOTY' is also
password to the "All's Well" in the health of
ldren—an ideal bone and body-builder—a splen-
supplement for vitamin deficiency. 'FROOTY'
A VERY PLEASANT WAY TO HEALTH.

FREE OF POINTS OF PURCHASE TAX

RETAIL PRICE 6d.

In attractive counter display outers each containing 36 glass tubes—assorted flavours: Lemon, Lime, Blackcurrant, Raspberry. 54/- per gross, carriage paid.



CODELLA

'frooty'

ASSORTED FLAVOURS

FORMULA:
Each tablet contains: Vitamin "C" 5 mgms.; Vitamin "D" 50 i.u.; Calcium 25 mgms.; Excipient and flavouring q.s.

SOLE DISTRIBUTORS:—
MOORE MEDICINAL PRODUCTS LTD., ABERDEEN & LONDON
London Office: 64 Gloucester Place, W.1

33⅓% PROFIT FOR YOU!

Every time you sell the 3/10 size Carters you gain 1/-

IT'S EASY to sell the large-size Carters because the customer saves 10d. by buying it, and gets 5 more pills as well. Investigations show that one customer in every three will buy the large size when it is offered them. Supplies are readily available. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now*

from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

JOHN KNOX · JOHN KNOX · JOHN KNOX

Service for the Chemist only

Everything you need—in Quick Time

Comprehensive Stocks of Medical and Toilet Requisites. Post orders despatched same day. Weekly Van Service throughout the Midlands. John Knox Service is there for *You!*

John Knox

(Stoke-on-Trent), Ltd.

Jaynox Works, King Street, Fenton, Stoke-on-Trent

P.A.T.A.

John Knox (Midland) Ltd., 36/38 Dean Street, Birmingham, 5

JOHN KNOX · JOHN KNOX · JOHN KNOX

"Leda"

D·D·T

LIQUID SPRAY

Specially prepared for Household u

NON-INFLAMMABLE. NON-STAININ

Ready for immediate use.
Full directions on each container.

Also in Powder Form. Samples and pri available to Wholesalers from Manufacture

LEDA CHEMICALS LT

WHARF RD., PONDERS END, MIDD

Phone: HOWard 2231 (3 lines)

Sole Agents for N. Ireland: Whyte Reid & Mitchell, L 61/63 Donegall Pass, Belfast.

Sole Agents for Scotland: Southern Mfg. Co. L 214 West Regent Street, Glasgow, C.2

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

CHEMISTS' CF FORMULA

Supplies may be obtained from C.F. Wholesale Houses

ZEMS, LTD.

718-724 Seven Sisters Road, London, N.15

✚ Stops

SCURF

Dr. Pagr-Barker's

Scurf & Dandruff Lotion

A Guarantee with every Bottle.

Distributors to the Chemists' Trade—

THOS. CHRISTY & CO. LTD.

FARNHAM, SURREY.

Trade 20/- doz.

Plus Tax ONE THIRD

Retail 3/4 P.A.T.A.

Sole Manufacturers and Proprietors—

ILEX SUPPLY CO., LTD. 252b GRAY'S INN ROAD, W.C

Again featured at this year's B.I.F.

VULFIX

SHAVING BRUSHES

Ask your wholesaler about

THE NEW VULFIX

"TIDY SHAVER"

A great boon, of assured popularity.

PROGRESS

SHAVING BRUSH CO., LTD.

MOTTRAM ST., STOCKPORT

ILLUSTRATED EXPORT CATALOGUE AVAILABLE FROM LONDON OFFICE:

49 LEADENHALL ST., E.C.3. (ROY 2857)

A consistently increasing demand stimulate by medical prescription.

DIUROMIL BRAND

Uric Acid Elimi ator and urinary antiseptic. A pal table effervescer granular prepara tion for all rheu matic complaint

RALGEX BRAND

ANALGESIC & RUBEFACIENT

Salicylates, Caps cin and Menth presented as stick of solid en brocation, clea and easy to appl

P.A.T.A.

Stocked by all leading wholesalers.

You too can recommend them with confiden

PHARMAX LTD.,

Organ Works:

OLD HILL · CHISLEHURST · KEN

'ASPRO' DISPLAYS MAKE CONTACT with a huge public

HERE'S THE REASON: 'ASPRO' has the largest sale—has **more** users—than any single medicinal line of its kind in the world. So that an 'ASPRO' display speaks directly to a huge public—and brings them in; 9 out of 10 of them stay to make other purchases as well. Countless chemists have found to their profit that displaying 'ASPRO' pumps new life into business when the general turnover is "limp." 14 days' window display qualifies you for bonus.

BUYING ON BONUS TERMS MEANS GREATLY INCREASED PROFIT

How much this means the following figures will show: on the very modest minimum order of 3 doz. 27's and 6 doz. 5's (which yields a profit of 18s. 4d.), you receive stock **to the value of 10s. 6d.** as a free bonus. This **increases** your total profit over 50 per cent. Larger bonus *pro rata* on larger orders.

Made by ASPRO LIMITED, Slough, Bucks

P.A.T.A.

end
r this Summer
lastic in
ght mauve
and Green

★ PAPER BAGS ARE WORTH WATCHING

At present, we have good stocks of 2 oz. glazed transparent and 2 oz. white sulphite paper bags, so why not **ORDER WHILE YOU ARE SURE OF SUPPLIES ?**

Michel

Exquisite Charm

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'ROCHE' NEWS IN BRIEF

'Roche' Price List

supplies are now coming forward our printers, and pharmacists who not yet received their copy of the new ated Price List should communicate s immediately as the edition is rapidly taken up.

Navigan' for Travel Sickness

that the holiday season has arrived view of the fact that countries over- re attracting visitors, pharmacists are ded that they should carry good stocks Navigan' Travel Sickness Remedy is a comfort to apprehensive travel- 'Navigan' can be given safely to en. We remind pharmacists of the isplay card for 'Navigan' which has produced to assist in promoting the f this seasonal preparation.

Vitamins in Nose-Bleeding

interesting report published recently lationship between deficiency of vita- C and K and nose-bleeding was dis- d. Of 104 cases there were 93 found iting deficiency either of vitamin C othrombin or both and a substitution py was begun. Fifteen patients were ascorbic acid, nine received 'Synkavit' r soluble vitamin K analogue) and a er 38 patients were given both vitamins. daily dose was 300 mg. ascorbic acid or g. 'Synkavit' or a combination of both nedication continued from one to three s. In the number of patients followed linical improvement ranged from de- ed frequency of nose-bleeding to com- stoppage. The investigators claimed "Vitamin C and K have a definite in the management of nasal hæmor- e." (Arch Otolaryngology, 1948,47,37).

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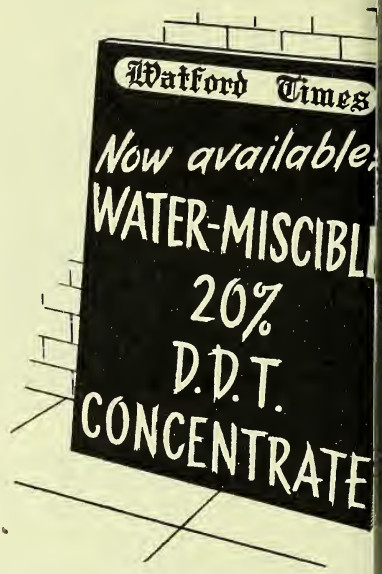

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The CHEMIST AND DRUGGIST SUPPLEMENT
28 ESSEX STREET. LONDON, W.C.2.
JULY 17 1948
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QUALIFIED MANAGER required for West I pharmacy. Good salary, staff profit-sharing sche and pension scheme available. Staff roster sys allows convenient hours. No Sundays. Write phone, George's (Chemists), Ltd., 21 Irving London, W.C.2. Whitehall 3774.

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THE ROYAL ARSENAL Co-operative Chemists, L have vacancies as pharmacy managers and qu fied dispensers. Applications are invited fr qualified pharmacists, made or female, and part lars of salary and commission will be forwar on application. Permanent and progressive p tions. Superannuation scheme in operation. W for particulars to the Staff Manager, 113 Po St., Woolwich, S.E.18.

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ONDON, E.2, near City. Assistant, qualified or ualified, for two or three months during holi- ys. Give full particulars of experience, age, mes of references and salary expected. Apply etter only). Pharmacist, 35 Sydner Rd., Stoke ewington, London, N.16.

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MANUFACTURERS of exceptionaly well-presented range of finest quality pharmaceutical specialities, now reorganising territories, have vacancies for representatives or sole agents to take over and develop existing connections in: 1. West Country. 2. Wales. 3. North Staffordshire, Derbyshire, Nottinghamshire and Lincolnshire. 4. Eastern Counties. 5. North Lancashire, Cumberland and Westmorland. 6. Home Counties. Applicants, preferably car owners, over 40 must have proven record of successful selling to retail and wholesale chemists, stores and Co-ops. The position is permanent with unlimited scope. Generous remuneration in return for skilful, conscientious service. Please reply giving exact territory and fullest details of qualifications, which will be treated with strict confidence. Box 4/92.

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MANUFACTURING CHEMISTS, N.W. London, have vacancy in their pill factory for an assistant with previous experience, or willing to learn the trade, resident in London area. 5-day week. Write, stating age, details of previous experience. Box 4/100.

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PHOTOGRAPHIC SALESMAN wanted. Permanent and progressive post for man with initiative; chemist training would be an advantage. Salary according to experience. Write, giving full details, Wallace Heaton, Ltd., 127 New Bond St., London, W.1.

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PROMINENT COMPANY invites applications for progressive position on representative staff from men with all-round experience in retail pharmacy. Successful applicant will be required to conduct medical and dental propaganda in addition to normal trade detailing in the pharmaceutical field in South Yorks and Derby. Remuneration is by salary and expenses. Write in confidence, age and salary required, to Box 4/45.

REPRESENTATIVE for West Country to call on retail chemists. Write stating experience, age, education, etc., to Arthur H. Cox & Co., Ltd., 93 Lewes Rd., Brighton.

REPRESENTATIVE on commission terms required for Midlands to call on manufacturing chemists, wholesalers, hospitals and local Government departments, offering pills, tablets, lozenges, capsules, suppositories, manufactured by old-established company. Must have present well-established connection in this trade. Write Box 4/157.

REPRESENTATIVE, over 40, with established connection in Kent and Sussex, required by progressive sundry house. Car owner. Salary £350-£400 p.a. Expenses and commission. Please send full particulars in first instance to Sales Director, Box 4/176.

REPRESENTATIVE required by progressive and established manufacturers of well-advertised cosmetic range, to cover Midland territory, calling on stores, chemists, hairdressers and Co-ops. Good commission during initial engagement. Permanency with progressive salary offered to business getter. Write full particulars, Box S.W., Knight's, 20 Blackfriars Lane, E.C.4.

REPRESENTATIVE required for nationally advertised medicinal product for South Coast and West Country. Salary, commission and expenses. Prospects for right man. Write Box A. C. 31039, Samson Clark's, 57-61 Mortimer St., W.1.

REPRESENTATIVE REQUIRED preferably with wholesale connection by brush manufacturers for Midlands and North. Good salary, commission and expenses. Apply Box 4/147.

REPRESENTATIVE REQUIRED, South and Eastern counties to carry an additional line for a well-known firm. Must have a first-class connection with chemists, stores, etc. Reply, stating line carried. Box 4/133.

REPRESENTATIVES calling on chemists, etc., also industrial welfare departments, Essex, Herts, Middlesex, Kent, Surrey, Sussex, offered well-known company's sterilising cabinets, disinfectants, as sidelines or full-time, on 15% commission basis. First-class products offering unlimited scope. Box 4/121.

REPRESENTATIVES required by manufacturers of perfumery and cosmetics for Home Counties, Midlands, Scotland, to call on wholesalers, stores, Co-ops, chemists Established travellers carrying supplementary lines considered. Excellent prospects for energetic men. Salary, high commission, expenses. Box 4/33.

REPRESENTATIVES REQUIRED

LANCASHIRE & CHESHIRE AREAS. Representatives required to call upon chemists, well-established C.F. lines. Salary and expenses. Preferably car-owners. Please write, giving age, full experience, connection, if any, to Box 4/19.

REPRESENTATIVES required for following areas: (1) East London and Essex. (2) South-east London and Kent. (3) North London, Middlesex and Hertfordshire. (4) West Country. Interviews London. To sell to chemists, hairdressers, Co-ops. and other stores, attractive lines in cosmetics and perfumes. Salary, expenses and commission. Reply, full particulars of experience and age. Box 4/110.
REPRESENTATIVES required with established connections all parts England and Scotland. Large range fancy goods, chemist sundries. Car necessary. Good income to men of initiative. Box 4/125.
REPRESENTATIVES on commission basis required to carry well-advertised C.F. preparation to retail chemists. Good commission paid to suitable applicant. Must have well-established connection. Apply Box 4/73.
SALESMAN/REPRESENTATIVE to visit doctors, chemists, hospitals; ethical products; car owner preferred; resident on territory. (a) Midlands. (b) Yorkshire. (c) Scotland. Box 4/144.
SALES REPRESENTATIVE required for Southern and lower Midland Counties. Education and experience essential. Write, with full particulars, to Managing Director, H. Bronnley & Co., Ltd., Warple Way, London, W.3.
STAFFORD ALLEN & SONS, LTD., require a chemist of B.Sc. or Ph.C. standard, with considerable experience of drug analysis. Duties would involve routine control work in our Nairobi laboratory. Single man preferred. Apply by letter to Department D/RPM, 20 Wharf Rd., London, N.1.
THOMAS KERFOOT & CO., LTD., invite applications for the post of representative for West London and adjacent Home Counties. Preference will be given to applicants resident in the territory who have a pharmaceutical qualification. Please send full particulars to Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs.
UNQUALIFIED ASSISTANT required for dangerous drugs, poisons and dispensing department. Interesting and permanent position for suitable applicant. Reply, stating experience and salary expected, to Chief Chemist, Hough, Hoseason & Co., Ltd., Atlas Laboratories, Levenshulme, Manchester, 19.
WANTED. (1) Export manager, capable of taking charge and developing existing export business, experienced in all shipping formalities, thoroughly up-to-date with import-export and finance regulations, conversant with markets, preferably with knowledge of industrial and fine chemicals. Excellent prospects for a capable experienced man with initiative and drive. (2) Assistant to the above with similar qualifications. (Male or female.) Apply with full details in confidence, to Box 4/172.
WORKS CHEMIST with pharmaceutical qualification required for well-known Dublin (Eire) firm manufacturing galenicals and pharmaceutical preparations. Requirements include formulation, control of manufacturing processes, and analytical standardisation of products. Good prospects for suitable applicant. Box 4/138.
WORKS CHEMIST required for executive position with London firm of manufacturing chemists. Applicants must be experienced in galenical manufacture and the supervision of poison and D.D.A. lines and be capable of carrying out assay and control of products. Excellent opportunity for the right man. Please apply in own handwriting, stating age, qualifications, experience and salary required, to Box 4/127.
YOUNG, enthusiastic representative required to call on chemists and other outlets, in East Anglia for medicinal proprietaries, toiletries and surgical dressings, etc. Apply, giving age, experience, whether married, car driver and salary required, to Sales Manager, Fassett & Johnson, Ltd., 86 Clerkenwell Rd., London, E.C.1.
YOUNG PHARMACIST required with view to ownership by easy terms. Accommodation could be arranged. East Midlands. Box 4/162.

WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large company operating in the Middle East. Will be employed either on development or process work and should be prepared initially to undertake shift work on process plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Starting salary not less than £630 p.a., plus generous allowance in local currency, free passage out and home, medical attention and kit allowance. Write, stating age and full details of qualifications and experience, quoting department F.18, to Box 1082 at 191 Gresham House, E.C.2.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

DISPENSER, Hall, wide experience, seeks morning work East London chemist, institute or doctor. Box 4/168.
UNQUALIFIED, seeks situation, London, Middlesex. Good all-round experience. Box 4/180.

WHOLESALE

A SALES MANAGER requires position. 15 years' experience. First-class knowledge of proprietaries and rubber trade. Widely travelled and linguist. Excellent connection with leading wholesale buyers. Please apply Box 4/111.
DERBYSHIRE. Experienced pharmacist (own car) requires position as representative or agency on commission basis for well-known house. Box 4/149.
GENTLEMAN, age 40, with comprehensive all-round knowledge of the drug trade, wholesale, retail and manufacturing, used to factory and sales control and handling large staff, seeks sound progressive position with reliable firm. Box 4/181.
REPRESENTATIVE with established connection in S.W. of England, S.W. of Wales, desires a change. Salary, commission and expenses required. Box 4/108.
TECHNICAL REPRESENTATIVE. Highly qualified chemist with wide experience seeks position as technical representative to reputable pharmaceutical manufacturers. Box 4/150.

TRADE MARKS

THE TRADE MARK No. 649990 consisting of the words "Daffy Santowels" and the device of daffodils and registered in respect of sanitary towels was assigned on February 7, 1948, by Wynifred Mallard, of High St., Eckington, Derbyshire, to Wynifred Mallard Limited, of High St., Eckington, Derbyshire, *without the goodwill of the business* in which it was then in use.

APPOINTMENTS

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following post:—

PHARMACIST required by the Government of Northern Rhodesia for the Health Department for one tour of 24 to 36 months with prospect of permanency. Salary £375 a year in scale rising to £600. Higher commencing salary may be offered according to age, war service and experience. Cost-of-living bonus is between £80 to £192 according to number of dependants. Free passages and quarters. Candidates, not over 35, must be members of the Pharmaceutical Society of Great Britain. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/21393/3F on both letter and envelope.

HILL END HOSPITAL, ST. ALBANS

ASSISTANT PHARMACISTS required. Salary in accordance with the Joint Negotiating Board's Report (Hospital Staff). (£370 p.a. rising by £15 p.a. to £450 p.a. inclusive of cost of living bonus). Apply, stating age, qualifications and particulars of experience, to Medical Director.

HILL END HOSPITAL, ST. ALBANS

ASSISTANT PHARMACIST (Locum Tenens), male or female, required for duty immediately. Salary £8 8s. per week with full board, lodging and laundry. Apply, stating age and qualifications to the Medical Director.

JESSOP HOSPITAL FOR WOMEN, SHEFFIELD

ASSISTANT PHARMACIST (female) required immediately. Salary in accordance with J.N.C. Scale including lunch and tea when on duty and overalls. Superannuation Scheme in force. Applications with full particulars to the Superintendent and Secretary, Jessop Hospital for Women, Leavygreave Rd., Sheffield, 3.

MIDDLESEX COUNTY COUNCIL

WEST MIDDLESEX COUNTY HOSPITAL, ISLEWORTH, MIDDX.

ASSISTANT PHARMACIST, J.N.C. (Hosp. Staffs) scale, £370 p.a.-£450 inclusive. Similar experience may determine commencing salary. Must hold one of Pharmaceutical Society's qualifications. Whole-time duties under Medical Director and Chief Pharmacist. Established, subject to medical examination. Applications, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR (quoting D570 CD).

LOCUM PHARMACIST required immediately for an indefinite period. Salary 8-10 guineas inclusive according to experience. Applications to Medical Director of Hospital, stating age, qualifications, experience, with up to three recent testimonials (quoting D.949 CD).

C. W. RADCLIFFE,
Clerk of the County Council.

Middlesex Guildhall,
S.W.1.

KING'S COLLEGE HOSPITAL, DENMARK HILL, S.E.5

ASSISTANT PHARMACIST (registered) required. Salary and hours in accordance with the J.N.C. revised scale. Superannuation scheme in operation. Applications, with details of experience, should be sent to The Pharmacist at the above address.

METROPOLITAN HOSPITAL

KINGSLAND ROAD, LONDON, E.8.

ASSISTANT PHARMACIST REQUIRED. Salary in accordance with J.N.C. Scale, plus lunch and tea. Federated Superannuation Scheme in force. Hours 9-5 p.m. No Sunday duty. Hospital experience preferred, but not essential. Applications, giving age, experience and references, should be sent to the House Governor.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD. No forms. (Male candidates to state position with regard to Military Service.)

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX.

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

NORTH STAFFORDSHIRE ROYAL INFIRMARY, STOKE-ON-TRENT

sistant Pharmacist, female, required. Joint tional Council Scale, £370-£450 inclusive. nilar experience may determine commencing ary, though hospital experience is not essen- l. Applications, with usual particulars and bies of testimonials, to be sent to the Secre- y and House Governor.

OYAL NATIONAL THROAT, NOSE & EAR HOSPITAL, Gray's Inn Road, London, W.C.1.

ADY ASSISTANT (Apothecary Hall) re- ired immediately. Salary according to J.N.C. le. Apply with full particulars to the armacist.

SURREY COUNTY COUNCIL

SOM COUNTY HOSPITAL, Dorking Rd., Epsom.

. HELIER COUNTY HOSPITAL, Car- nalton.

SSISTANT PHARMACIST required. Com- encing salary on grade £370 x £15—£430 x 20—£450 per annum, inclusive. Applications, ating age, qualifications and experience, with pies of testimonials, should be sent to the edical Superintendent of the appropriate spital.

HE GENERAL INFIRMARY AT LEEDS

pplications are invited for the appointment ASSISTANT PHARMACIST. Salary com- encing at £350 per annum plus meals, which ll be provided when on duty, but subject to justment in the light of Scales to be made own by the Minister of Health. National ealth Superannuation scheme in force. Night d week-end duty will be worked in rotation. evious hospital experience not essential. pplicants must reply in own handwriting, ating sex, age and experience, and also en- ose copies of not more than three recent stimonials, to the House Governor and Secre- ry not later than 23rd July, 1948.

EST SUFFOLK GENERAL HOSPITAL, BURY ST. EDMUNDS.

NQUALIFIED ASSISTANT DISPENSER quired immediately. Applications should be dressed to the Secretary, giving full details experience.

AGENCIES

for 36 words or less, 4d. for every additional word

NTS required, all Counties, to represent manu- urers C.F. lines. State territory covered and carried. Commission only. Box 4/154.

NTS REQUIRED in all parts of the country to products on a commission basis to both retail wholesale trade. Details as to present lines connection to Box 4/139.

NTS WANTED for all parts of U.K. for well- olished range of beauty products. Commission only. Write, giving area covered and in- tion of other lines carried, to Box 4/21.

ENTS. 20% commission offered, to agents with d connections. Two lines nationally distributed advertised, require energetic salesmen to show improved packs, display material and excellent it to retail chemists. Send full particulars to 4/132.

A AGENTS throughout U.K. with good retail nections with chemists and stores, toilet depart- ts wanted. Customary commission basis, for ing rubber manufacturers. Box 4/143.

DIRECTOR of a leading commercial concern in West Pakistan with showrooms and offices at Karachi, Lahore and Peshawar, who is now in London, is desirous of contacting British manufacturers of chemical and pharmaceutical products for obtaining sole distribution and representation in these lines. Write Box 4/122.

IMPORTANT BELGIAN manufacturers of special pharmaceutical products wish to contact manufacturers of veterinary products, surgical dressings, pharmaceutical specialities, scientific apparatus and accessories, photographic products, for sale in Belgium. Laboratoires Wolfs, Avenue des Petits Coqs, 70-72-74 Antwerp, Belgium.

PANCHROMATIC ROLL FILM—120, 620 and 127 available. Guaranteed products. Retail London agent required. Write Box No. E 277, c/o Streets, 110 Old Broad St., London, E.C.2.

REPRESENTATIVES calling on chemists, Co-ops, etc., wanted to carry additional quick-selling line on commission basis. Box 4/155.

SPECIALITY SALESMAN required by a London firm of distributors to carry additional line of gentlemen's electrical toilet appliances to chemists only, on a generous commission basis. Territories concerned: London, South and West England and Eastern Counties. Write Box 225 c/o Maurice Vernon, Ltd., 15 Godliman St., London, E.C.4.

WORLD-KNOWN FIRM. Manufacturers of liquorice pellets, pastilles, lozenges, tablets, etc. (products internationally displayed and advertised) seeks sole buying agent for England and Wales and export trade. Only firms of repute entertained. Box 4/174.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional word

AUSTRALIAN business man, well-established, at present in England, interested in agency or production under licence. 10 years' experience. Would like to contact manufacturers. Box 4/130.

SCOTTISH AGENT with extremely valuable connections amongst chemists and departmental stores has a vacancy for an additional line in the pharmaceutical, perfumery or cosmetic field, capable of yielding high turnover. Firms interested are invited to write to Box J. W., 559 Erwoods, Ltd., 211 Piccadilly, London, W.1.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

ADVERTISER would like to hear from chemists with spare accommodation either on the ground floor of their premises, or on the first floor, who would be interested in the use of such space for greatly increased business without incurring any expense on their part. Only those with business in good shopping centres entertained. Box 4/58.

COMPANY discon. manufacture ceramic products, occupying mod. freehold factory 7,500 super, incl. large res. and office buildings, works area 3,700 ft., ideal manufacture, warehousing, etc., would consider sale or discuss any sound commercial or manufacturing proposition. Write "S.E. London." Box 4/165.

HAVE YOU SURPLUS STOCKS? We are buyers of surplus stocks. Small or large quantities bought. Apply D. H. & Co., Ltd., 292 Kilburn Lane, London, W.10, or phone Western 0447.

INCOME TAX problems settled, books kept and accounts prepared. Fees for small traders approx. 25/- per month, dependent upon work involved. Forest Hill 3752, Tudor 5717, Larkswood 3181. 40 Winsford Rd., S.E.6.

SELLING ORGANISATION with proven record wishes to contact actual manufacturers desiring help in sales to the home market. Only first-class products with reasonable commission basis of payment considered. Results assured to right applicants. Box 4/140.

LEADING IRISH importers and distributors to chemists throughout Eire have in course of erection commodious modern factory (10,000 sq. ft.) where they can undertake packing and/or manufacture of proprietaries, chemist sundries and pharmaceutical products, etc., for British manufacturers. Production commencing September. Box 4/93.

"STRAIGHT TO THE MARK" service by Arrow Products (Prepackers), Ltd. Experts in bottle washing, drying and sterilising. Prepackers, labellers and folders, all trades. Powder, tablet, cream or liquid filling. Direct dispatch if required. Inquiries: 13 St. Pauls Close, Hounslow. Hounslow 0378.

TABLETS. A well-known food manufacturing company have available tableting capacity. Large quantities can be handled quickly and efficiently under hygienic conditions Complete packaging can be arranged if required. Inquiries to Box W.731. Haddons', Salisbury Sq., London, E.C.4.

WHOLESALE DISTRIBUTORS and agents with established coverage U.K., sound connections chemists, hairdressers, multiple stores, etc., and with a rapidly-developing export organisation, invite manufacturers' offers of sole agencies or special home territories. Box 4/145.

WHY NOT BE A SALESMAN with our proved postal training and guaranteed appointments service which secured 1,000 salaried sales vacancies in 1947? Previous experience unnecessary with our 25 years' specialised experience to aid you. Send today for free details. Wallace Attwood College, Dept. 84, Attwood House, Finchley Rd., London, N.W.3.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

CLEARANCE. Manufacturer's surplus. 100 gross 8-oz. ribbed square blue and amber bottles and corks. 133 gross No. 5 bottles and caps. 12 gross 2-oz. medical flats and caps. Whole or part. Samples on request. Best offer buys. Cross & Max, Ltd., Bishops Ct., Old Bailey, London, E.C.4.

FOR DISPOSAL Glass stoppered, semi-wide mouth bottles. 2-oz. Approximately 20 gross. Free sample. Any reasonable offer. Also approximately 60 gross assorted amber square tablet bottles, cork mouth. Box 3/947.

FOR EXPORT. Surplus. 1,000 kilos sodium salicylate B.P., available immediately at 5/9 per kilo, delivered f.o.b. London. Box 4/123.

HOLLAND ADELPHI DISINTEGRATOR, complete with hopper and 15 h.p. motor, A.C. 440 volts. Offers asked. Two Jackson & Crockett fillers for powders, one only with motor. Gardner size "E" combined sifter and mixer, without motor. Also one Edge runner mill, without motor. Box 4/151.

LARGE QUANTITY of surplus 4 in., lens front, guaranteed clinical thermometers, fahrenheit, in bakelite cases. Suitable for home trade or export. 1s. 10½d. each (minimum 100), or offer for whole or substantial part of parcel. Write for particulars to Box 4/161.

"PFAUDLER" glass enamelled steel upright open-jacketed vessels (2), capacity 50 gallons, fitted stainless steel high-speed propellor-type agitators. New and unused. Box 4/158.

SHOWCARDS. Silk screened in multi colours, from 1/- each. The most economical printing process and the cleanest in finish. We specialise in manufacturing and wholesale chemists' lines. Let us prepare a card for one of your products. Alan Dick Studio, Park Ave., Tankerton, Kent.

TO BE CLEARED. Goods as received from manufacturers. ½-oz. and 1-oz. c/m. cannon bottles, bulk liquid flavourings, corks, capsules, packing outers, peg-top bakelite caps. Also available packed flavourings. Details of total or individual items from Box 4/129.

WHOLESALER has 650 gross No. 3 (1½-oz.) bott with caps and sleeves. 1,600 gross 1¼-oz. (2¼ dia.) round tins. 180 gross 31-oz (4¼ x 3 i flat tins all in good condition. Write offers Box 4/119.

YOUR ENQUIRIES are invited for our surplus sto of phenacetin and aspirin tablets. Box 4/124.

1,000 GROSS 14-m.m. caps at 2s. 3d. per gro Reply Box 4/85.

100 GROSS 6-oz. flat medical bottles, 20s. gross. 100 gross enamelled screw caps, 4s. gross. 600 new cartons, each for 2 dozen bottl 11d. per carton. Box 4/167.

5,000 1-GALLON CANS, seals and caps. Solder Oblong. Apply O.C.P., 28 Peterborough R S.W.6.

FOR SALE

8/6 for 36 words or less, 3d. for every additional w

FOR SALE. 6 gross fancy 2-oz. glass bottles w bakelite caps. Price in order to clear pres stock 31s. per gross. Sample sent on request. 4/146.

ABOUT 5 CWT. clove terpenes, 5 cwt. lanette w for disposal. No reasonable offer refused. 4/175.

FOR SALE. Albro bottle filling machine, suita for any liquid or semi solids. 210-220 a.c. A Mitchell stirring unit, will stir any liquid or se solid. 210-220 a.c. The Rizona Co., 66 Leins Ave., Bristol, 4.

LOZENGE MIXER. A heavy Werner-Pfleide double paddle, 35-lb. capacity. Perfect. £50 nearest. Also Duncan Stewart tablet machine make tablets up to 2½ inches in diameter and inch thick, complete with punches and dies 2-inch tablets and multiple punches to make ½-i tablets. Perfect order. Similar to Manesty No tablet machine. Inspection invited. Box 4/126

ONE "ALITE" "E" SIFTER MIXER with 3 h 400 volt 3-phase motor. Box 4/152.

TABLET MACHINES. Three single punch, in g working order. Offers to Box 4/179.

TRANSPARENT VISCOSE PAPER, 9-24 in., on re Chocolate, tango, light blue, orange, white. per lb. Box 4/166.

2½ in. x 1⅝ in. SACCHARIN POCKETS. Gumn flaps. Printed two colours. 11s. per thousa Original 12,000 boxes at 10s. 6d. per thousa carrriage paid. C.W.O. Anderson (Chemis Ltd., Newtownards, Northern Ireland.

WANTED

8/6 for 36 words or less, 3d. for every additional w

LABELLING MACHINES urgently wanted to p chase, or would recondition quick service. Pl state age, condition, price required, Box 4/17

LACQUER. Super quality. Regular bulk suppl All colours, for use as a nail varnish. 'Ph Gerrard 3270.

LARGE QUANTITIES BOTTLES urgently requi 26-oz. gins, etc., c/m, also external and inte screw-thread type. Wines and vinegar bo c/m 20-oz. and smaller sizes wanted. Box 4/1

OIL OF SAVIN. Advertiser requires 5 or 10 lons immediately. State price to Box 4/134.

STEARIC ACID, triple pressed, required in l quantities. Box 4/2.

SYRUPUS, B.P. Manufacturer wishes to buy l or small quantities. Offers to Box 4/141.

UNUSED TRADE MARKS, suitable for medic preparations required by leading firm of ma facturing chemists. Please reply with full part lars to Box 4/20.

Printed by The Hatcock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

Clove Oil

distilled by us from Zanzibar Buds

WHIFFEN & SONS LTD

Manufacturers of Fine Chemicals

ULHAM · LONDON · S.W.6 *Telephone:* **RENown 3416**

The CHEMIST AND DRUGGIST
JULY 17, 1948

Whether your women customers are tennis enthusiasts—

—or perhaps golfers—

—or whether they are more socially inclined—

—their needs are just the same. They require a towel of QUALITY —one which will give them complete comfort and safety in ALL circumstances

PRICES

Size 0	15/9	Trade	per	doz.	pkts.	1/9	Retail per pkt.
,, 1	18/–	,,		,,		2/–	,, ,,
,, 2	22/6	,,		,,		2/6	,, ,,
,, 3	27/9	,,		,,		3/1	,, ,,
,, 4	30/–	,,		,,		3/4	,, ,,
VENSILLA SOLUBLE TOWELS							
	14/6	Trade	per	doz.	pkts.	1/7½	,, ,,

Silcot all-elastic adjustable Sanitary Belts, 12/6 per doz., plus 4/3 Purchase Tax. Retail Price 1/11 each.

SILCOT SANITARY TOWELS

MACDONALD & SON LIMITED, DAWSON STREET, SALFORD, MANCHESTER, 3